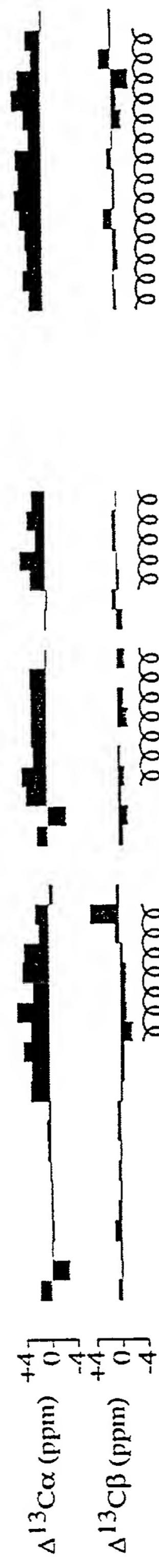
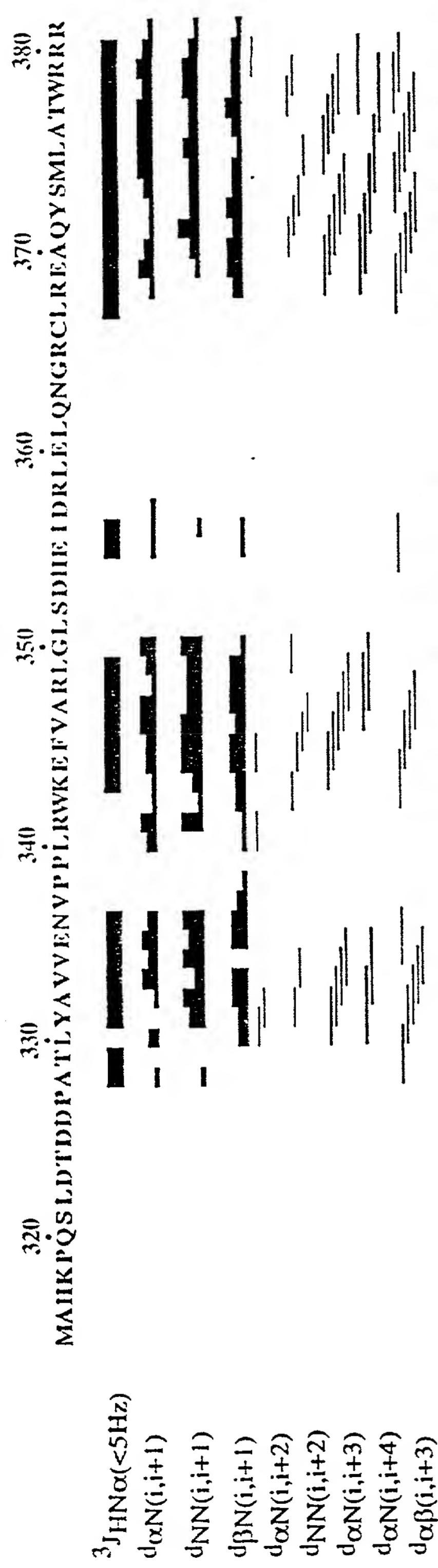
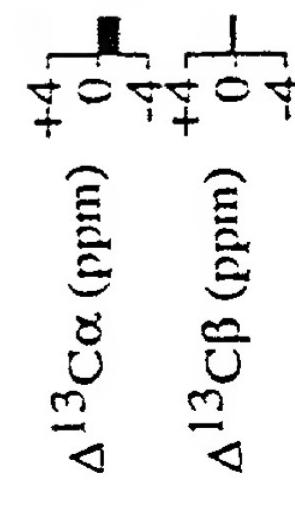
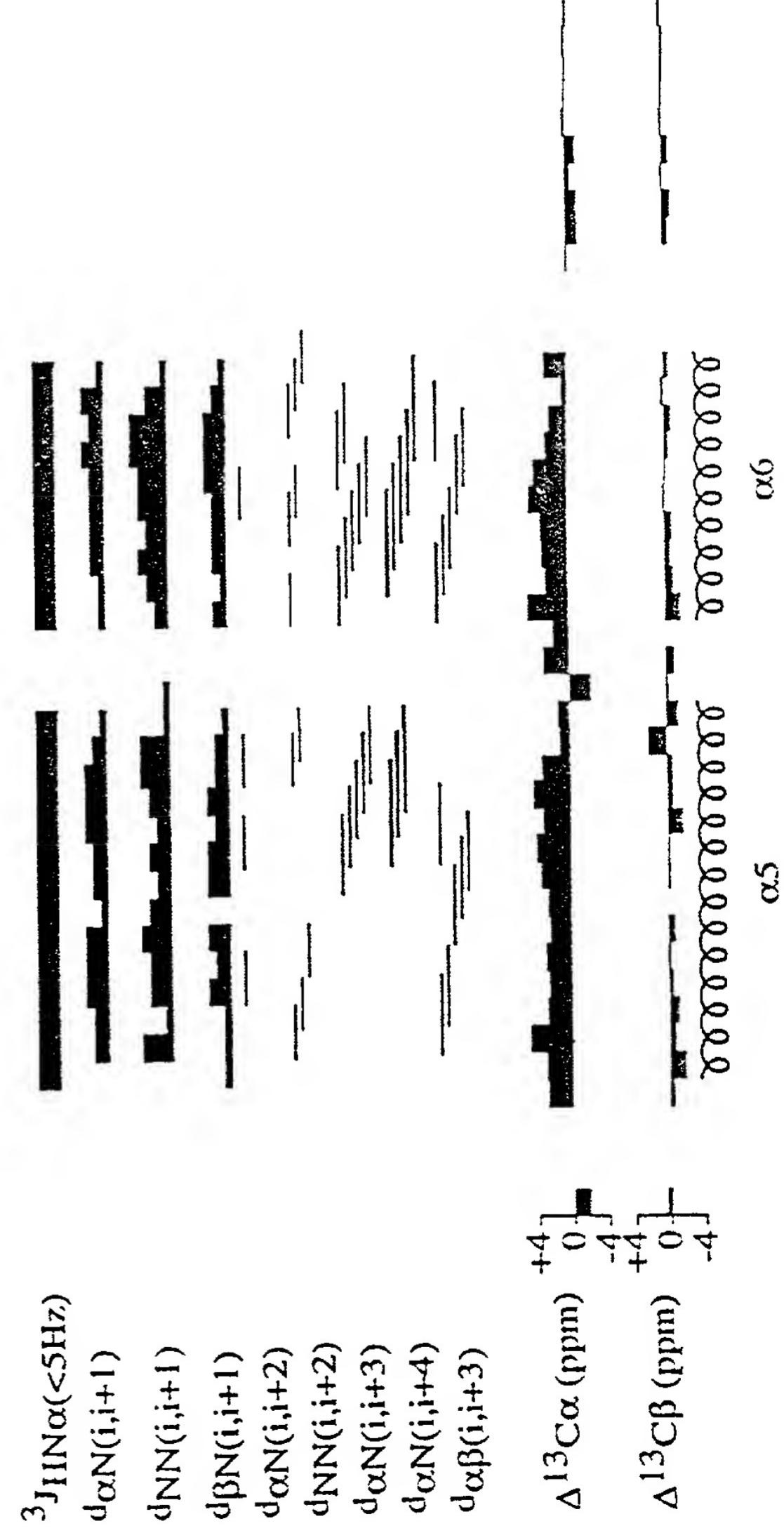


Figure 1. 3 JHN α (<5Hz)



TPRREATLELLGRVLRIDMDLGLCIEDIIEEALCGPAAAPPSLLR



$\alpha 5$

$\alpha 6$

Figure 2. Schematic diagram of the protein network.

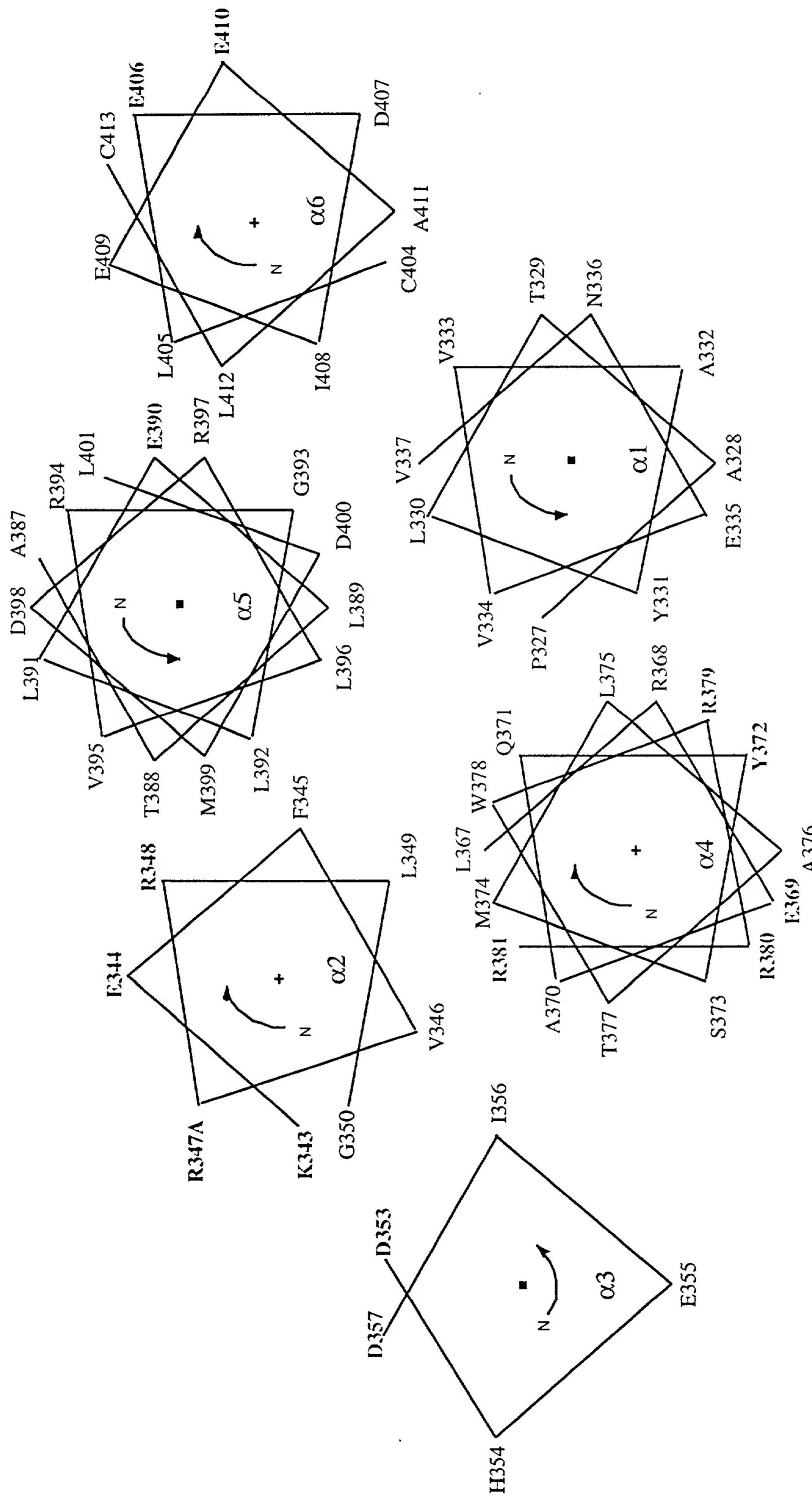


Figure 3

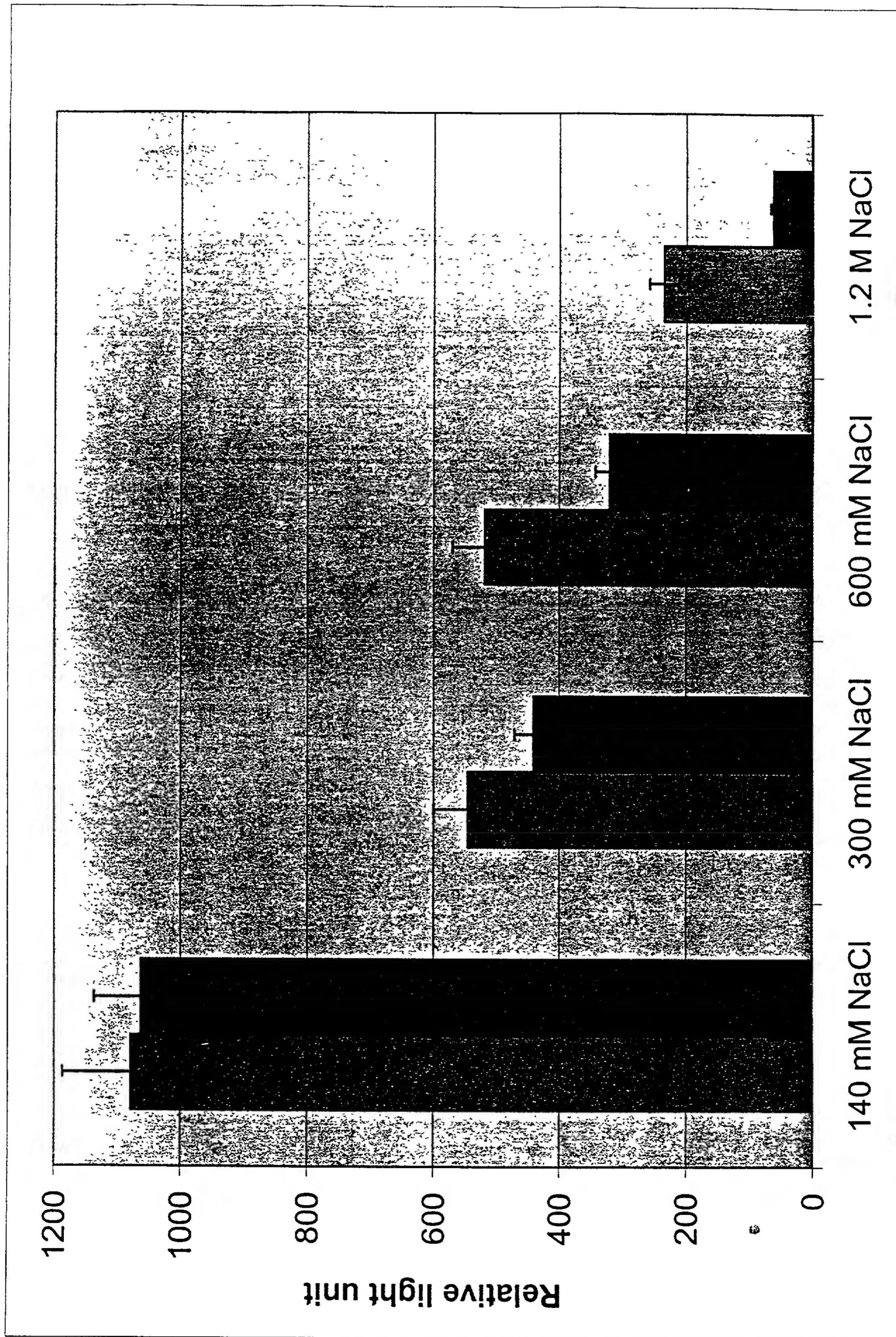


Figure 4

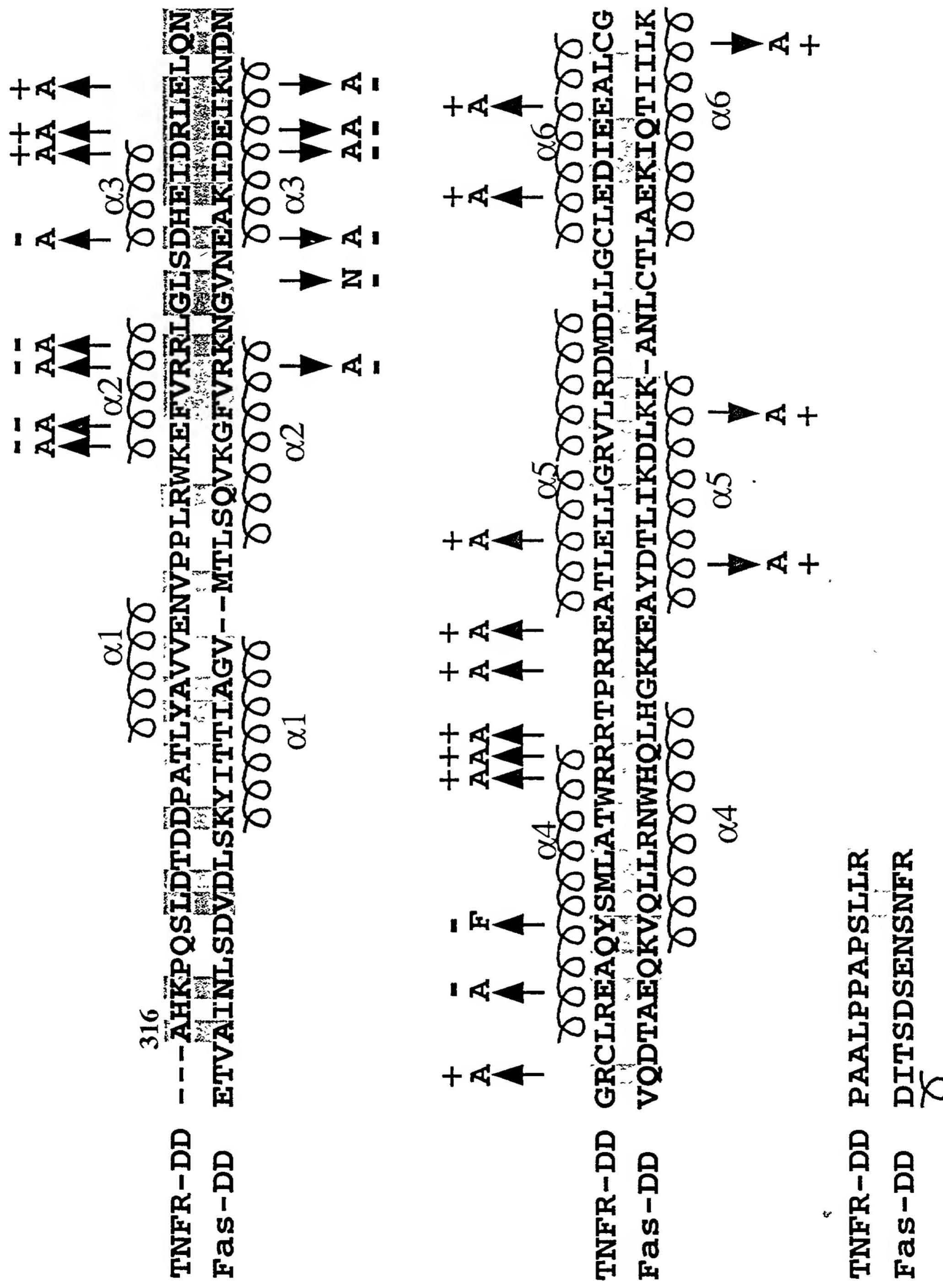


Figure 5A

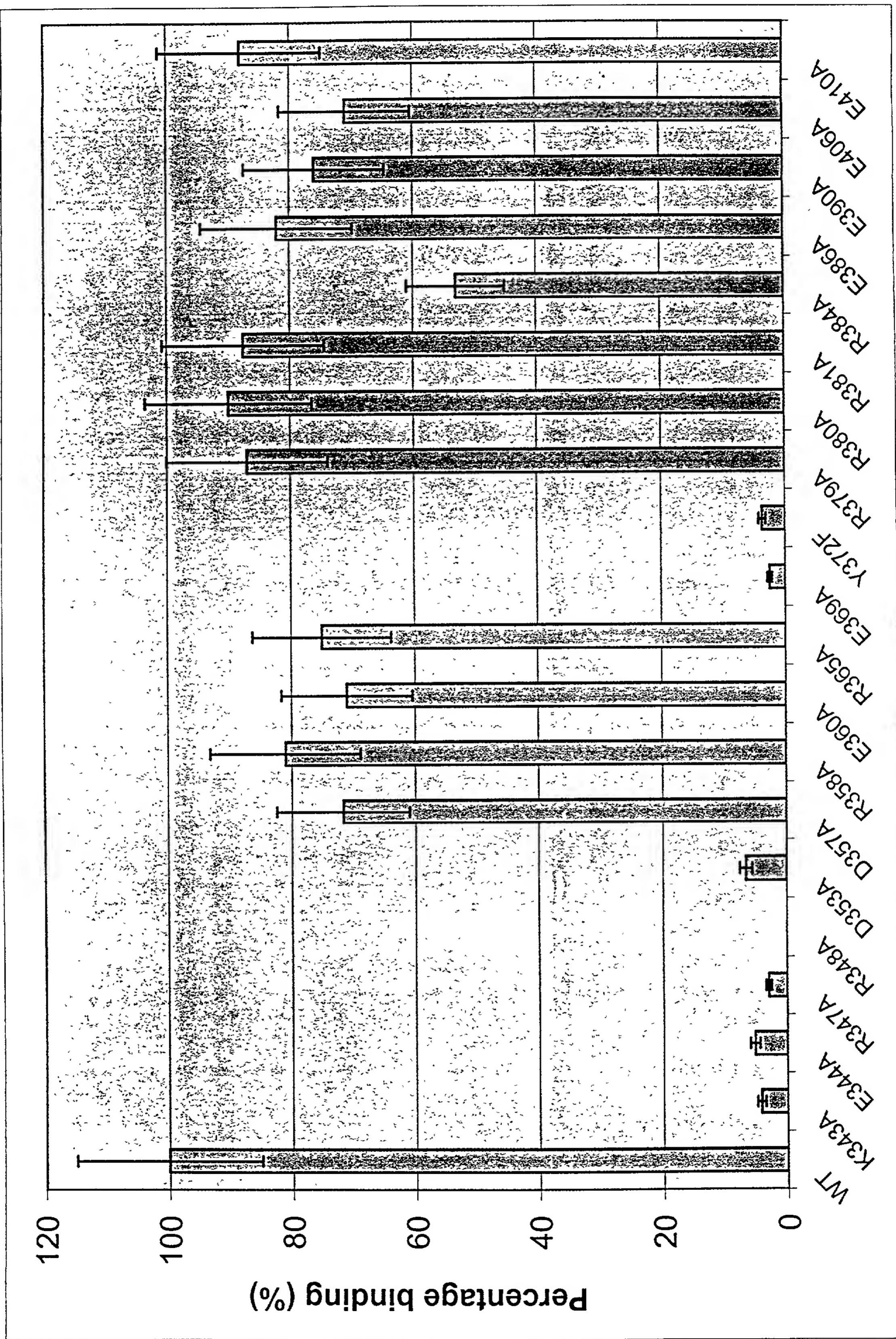
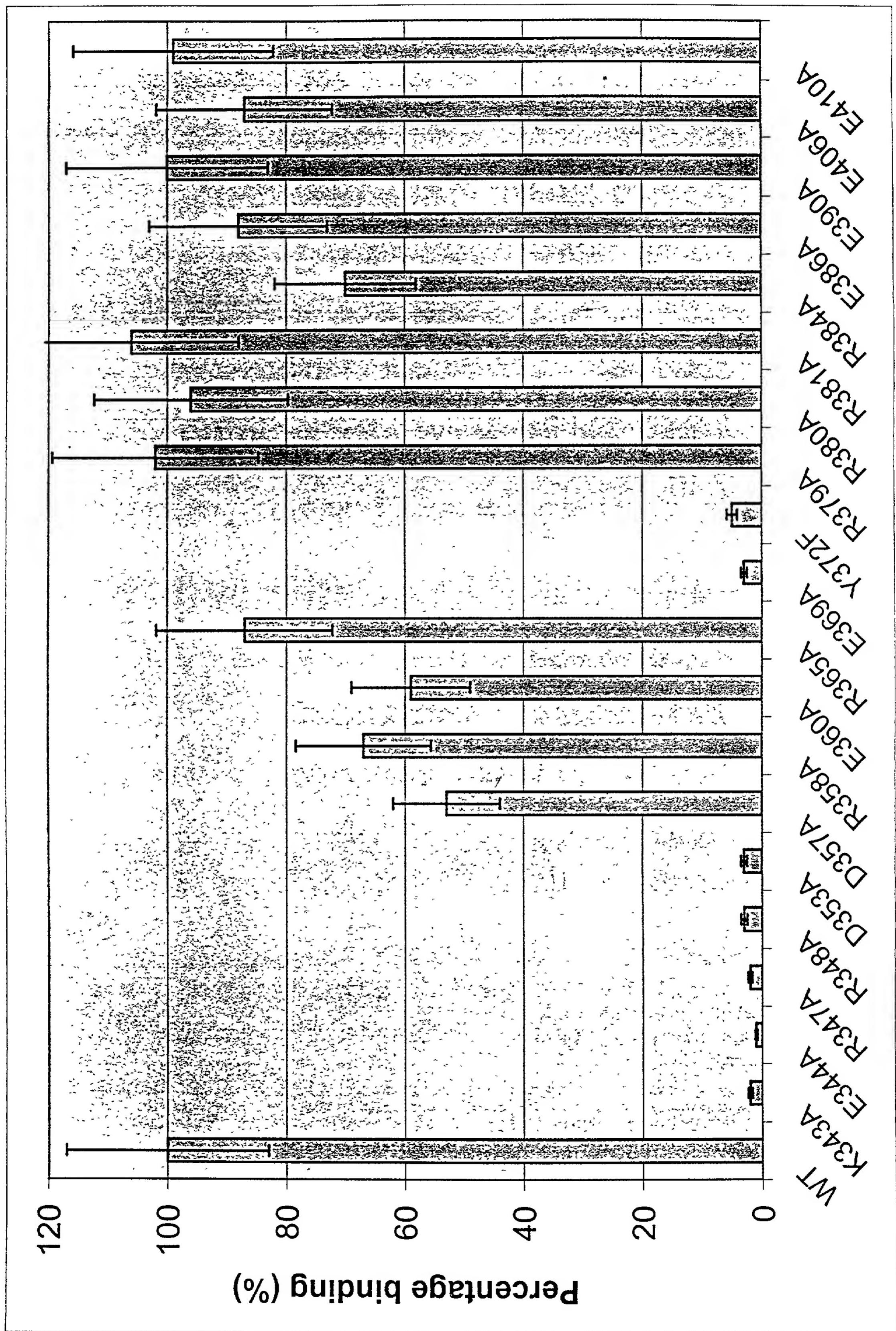


Figure 5B



Summary of Secondary Structure Indicators of TNFR-DD R347K

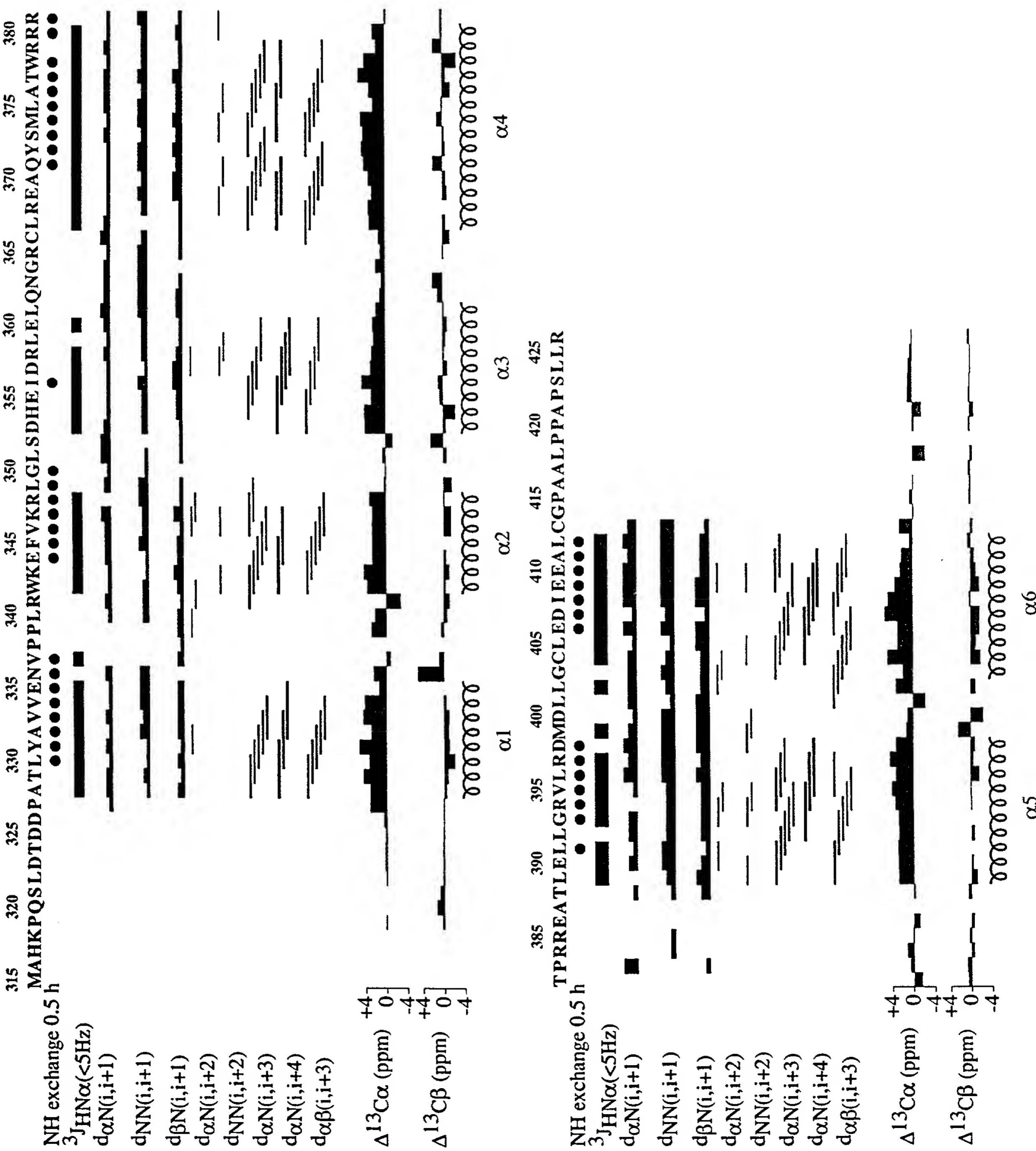


Figure 7

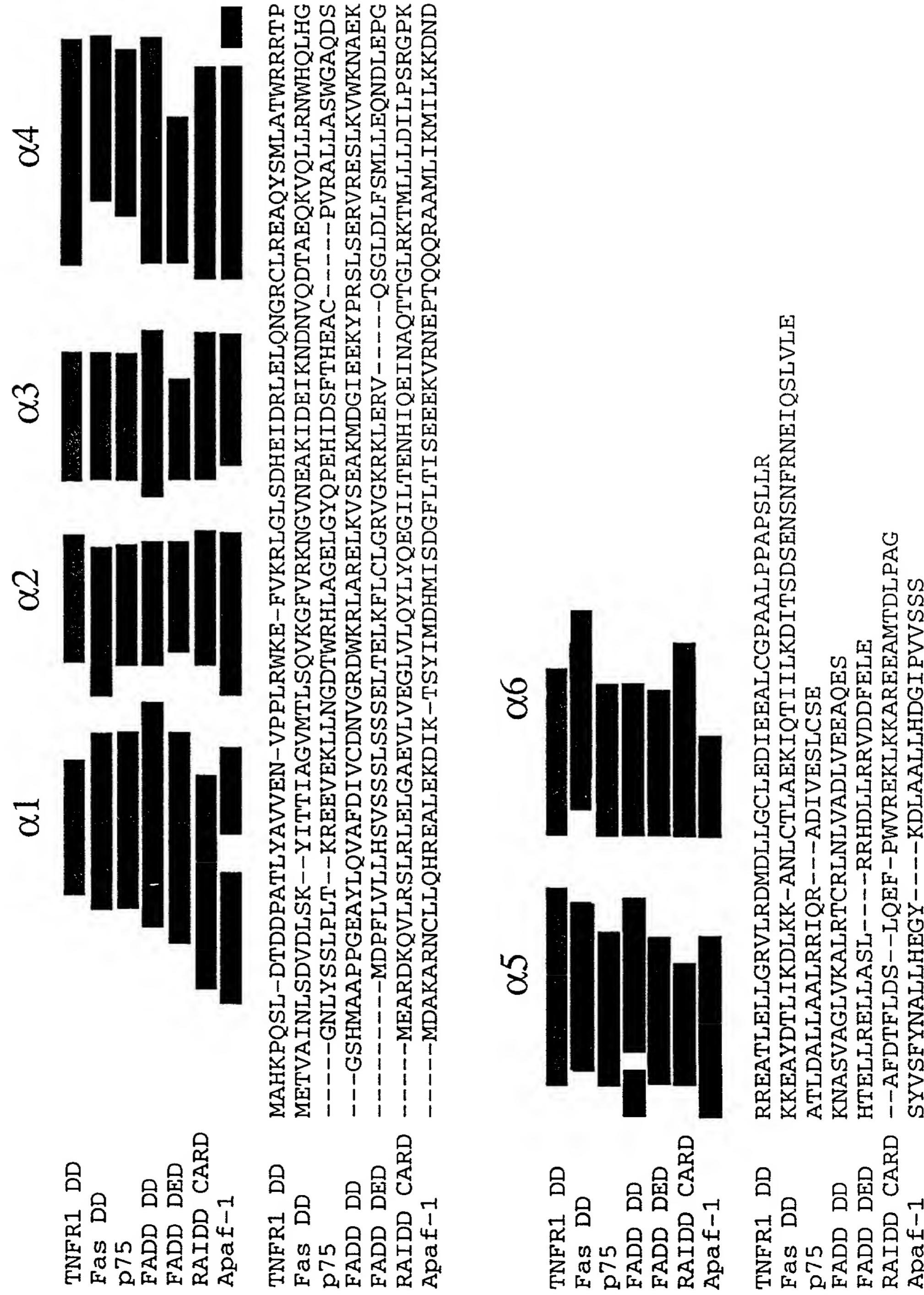


Figure 8 (1 of 19)

	Atom	Type	Residue	Res.	No.	X	Y	Z		
ATOM	1	N	PRO	327		2.816	0.502	11.316	1.00	0.61
ATOM	2	CA	PRO	327		2.189	1.819	11.030	1.00	0.60
ATOM	3	HA	PRO	327		1.287	1.695	10.452	1.00	0.62
ATOM	4	CB	PRO	327		1.855	2.377	12.410	1.00	0.69
ATOM	5	HB1	PRO	327		0.841	2.129	12.681	1.00	0.75
ATOM	6	HB2	PRO	327		2.000	3.449	12.426	1.00	0.68
ATOM	7	CG	PRO	327		2.811	1.705	13.337	1.00	0.71
ATOM	8	HG1	PRO	327		2.360	1.585	14.310	1.00	0.79
ATOM	9	HG2	PRO	327		3.718	2.289	13.417	1.00	0.69
ATOM	10	CD	PRO	327		3.114	0.354	12.749	1.00	0.68
ATOM	11	HD2	PRO	327		4.156	0.104	12.897	1.00	0.67
ATOM	12	HD1	PRO	327		2.477	-0.400	13.184	1.00	0.74
ATOM	13	C	PRO	327		3.178	2.733	10.300	1.00	0.51
ATOM	14	O	PRO	327		2.851	3.350	9.306	1.00	0.47
ATOM	15	N	ALA	328		4.385	2.823	10.787	1.00	0.51
ATOM	16	HN	ALA	328		4.629	2.318	11.591	1.00	0.55
ATOM	17	CA	ALA	328		5.393	3.697	10.123	1.00	0.46
ATOM	18	HA	ALA	328		5.006	4.703	10.052	1.00	0.47
ATOM	19	CB	ALA	328		6.684	3.703	10.944	1.00	0.51
ATOM	20	HB1	ALA	328		6.619	4.461	11.711	1.00	1.19
ATOM	21	HB2	ALA	328		7.521	3.917	10.297	1.00	1.04
ATOM	22	HB3	ALA	328		6.823	2.736	11.404	1.00	1.17
ATOM	23	C	ALA	328		5.685	3.165	8.720	1.00	0.39
ATOM	24	O	ALA	328		5.930	3.920	7.799	1.00	0.36
ATOM	25	N	THR	329		5.660	1.872	8.545	1.00	0.37
ATOM	26	HN	THR	329		5.459	1.278	9.298	1.00	0.40
ATOM	27	CA	THR	329		5.935	1.303	7.196	1.00	0.34
ATOM	28	HA	THR	329		6.871	1.692	6.823	1.00	0.34
ATOM	29	CB	THR	329		6.012	-0.222	7.279	1.00	0.37
ATOM	30	HB	THR	329		5.045	-0.618	7.549	1.00	0.40
ATOM	31	OG1	THR	329		6.971	-0.601	8.256	1.00	0.39
ATOM	32	HG1	THR	329		6.878	-0.012	9.009	1.00	0.80
ATOM	33	CG2	THR	329		6.419	-0.779	5.915	1.00	0.38
ATOM	34	HG21	THR	329		6.796	0.023	5.297	1.00	1.08
ATOM	35	HG22	THR	329		5.559	-1.226	5.438	1.00	1.05
ATOM	36	HG23	THR	329		7.188	-1.525	6.044	1.00	1.09
ATOM	37	C	THR	329		4.804	1.694	6.247	1.00	0.32
ATOM	38	O	THR	329		4.984	1.773	5.048	1.00	0.30
ATOM	39	N	LEU	330		3.638	1.938	6.776	1.00	0.35
ATOM	40	HN	LEU	330		3.515	1.868	7.745	1.00	0.39
ATOM	41	CA	LEU	330		2.495	2.322	5.905	1.00	0.36
ATOM	42	HA	LEU	330		2.474	1.678	5.038	1.00	0.36
ATOM	43	CB	LEU	330		1.175	2.181	6.678	1.00	0.43
ATOM	44	HB1	LEU	330		0.356	2.118	5.977	1.00	0.71
ATOM	45	HB2	LEU	330		1.038	3.047	7.309	1.00	0.48
ATOM	46	CG	LEU	330		1.193	0.915	7.550	1.00	0.70
ATOM	47	HG	LEU	330		1.892	1.049	8.362	1.00	1.17
ATOM	48	CD1	LEU	330		-0.204	0.675	8.123	1.00	1.17
ATOM	49	HD11	LEU	330		-0.847	1.504	7.863	1.00	1.71
ATOM	50	HD12	LEU	330		-0.142	0.591	9.198	1.00	1.79
ATOM	51	HD13	LEU	330		-0.610	-0.238	7.713	1.00	1.63
ATOM	52	CD2	LEU	330		1.609	-0.300	6.710	1.00	1.69
ATOM	53	HD21	LEU	330		1.114	-0.263	5.752	1.00	2.25
ATOM	54	HD22	LEU	330		1.327	-1.206	7.226	1.00	2.18
ATOM	55	HD23	LEU	330		2.679	-0.287	6.563	1.00	2.16
ATOM	56	C	LEU	330		2.677	3.771	5.454	1.00	0.33
ATOM	57	O	LEU	330		2.472	4.104	4.305	1.00	0.30
ATOM	58	N	TYR	331		3.074	4.636	6.348	1.00	0.35
ATOM	59	HN	TYR	331		3.244	4.347	7.270	1.00	0.38
ATOM	60	CA	TYR	331		3.281	6.059	5.962	1.00	0.36
ATOM	61	HA	TYR	331		2.368	6.457	5.544	1.00	0.37
ATOM	62	CB	TYR	331		3.681	6.872	7.195	1.00	0.42
ATOM	63	HB1	TYR	331		3.987	7.861	6.889	1.00	0.43
ATOM	64	HB2	TYR	331		4.500	6.381	7.699	1.00	0.42
ATOM	65	CG	TYR	331		2.504	6.979	8.134	1.00	0.48
ATOM	66	CD1	TYR	331		1.305	7.551	7.692	1.00	1.26
ATOM	67	HD1	TYR	331		1.221	7.915	6.679	1.00	2.13
ATOM	68	CD2	TYR	331		2.612	6.507	9.448	1.00	1.36
ATOM	69	HD2	TYR	331		3.538	6.066	9.789	1.00	2.24
ATOM	70	CE1	TYR	331		0.214	7.650	8.564	1.00	1.30
ATOM	71	HE1	TYR	331		-0.711	8.091	8.223	1.00	2.18
ATOM	72	CE2	TYR	331		1.521	6.607	10.320	1.00	1.38
ATOM	73	HE2	TYR	331		1.605	6.243	11.333	1.00	2.26
ATOM	74	CZ	TYR	331		0.322	7.178	9.878	1.00	0.63
ATOM	75	OH	TYR	331		-0.753	7.276	10.737	1.00	0.71
ATOM	76	HH	TYR	331		-0.454	7.713	11.538	1.00	1.10
ATOM	77	C	TYR	331		4.396	6.132	4.920	1.00	0.32

Figure 8 (2 of 19)

ATOM	78	O	TYR	331	4.401	6.986	4.055	1.00	0.33
ATOM	79	N	ALA	332	5.340	5.235	4.995	1.00	0.31
ATOM	80	HN	ALA	332	5.312	4.555	5.700	1.00	0.33
ATOM	81	CA	ALA	332	6.456	5.241	4.011	1.00	0.31
ATOM	82	HA	ALA	332	6.880	6.232	3.950	1.00	0.35
ATOM	83	CB	ALA	332	7.532	4.247	4.454	1.00	0.35
ATOM	84	HB1	ALA	332	7.081	3.281	4.628	1.00	1.08
ATOM	85	HB2	ALA	332	7.996	4.597	5.363	1.00	0.98
ATOM	86	HB3	ALA	332	8.279	4.160	3.680	1.00	1.12
ATOM	87	C	ALA	332	5.922	4.826	2.642	1.00	0.28
ATOM	88	O	ALA	332	6.274	5.395	1.629	1.00	0.31
ATOM	89	N	VAL	333	5.077	3.832	2.604	1.00	0.26
ATOM	90	HN	VAL	333	4.809	3.385	3.434	1.00	0.27
ATOM	91	CA	VAL	333	4.525	3.374	1.300	1.00	0.26
ATOM	92	HA	VAL	333	5.335	3.242	0.597	1.00	0.29
ATOM	93	CB	VAL	333	3.803	2.040	1.496	1.00	0.28
ATOM	94	HB	VAL	333	3.015	2.161	2.225	1.00	0.27
ATOM	95	CG1	VAL	333	3.202	1.576	0.167	1.00	0.30
ATOM	96	HG11	VAL	333	2.209	1.186	0.338	1.00	1.07
ATOM	97	HG12	VAL	333	3.823	0.802	-0.258	1.00	1.01
ATOM	98	HG13	VAL	333	3.148	2.409	-0.517	1.00	1.09
ATOM	99	CG2	VAL	333	4.803	0.993	1.992	1.00	0.33
ATOM	100	HG21	VAL	333	5.237	0.480	1.146	1.00	1.10
ATOM	101	HG22	VAL	333	4.295	0.279	2.623	1.00	1.02
ATOM	102	HG23	VAL	333	5.584	1.481	2.556	1.00	1.07
ATOM	103	C	VAL	333	3.547	4.419	0.756	1.00	0.24
ATOM	104	O	VAL	333	3.562	4.741	-0.416	1.00	0.27
ATOM	105	N	VAL	334	2.696	4.953	1.590	1.00	0.22
ATOM	106	HN	VAL	334	2.694	4.685	2.532	1.00	0.22
ATOM	107	CA	VAL	334	1.726	5.973	1.098	1.00	0.25
ATOM	108	HA	VAL	334	1.127	5.544	0.310	1.00	0.29
ATOM	109	CB	VAL	334	0.812	6.420	2.244	1.00	0.29
ATOM	110	HB	VAL	334	1.410	6.823	3.048	1.00	0.30
ATOM	111	CG1	VAL	334	-0.151	7.491	1.735	1.00	0.40
ATOM	112	HG11	VAL	334	-0.343	7.329	0.685	1.00	1.10
ATOM	113	HG12	VAL	334	0.289	8.467	1.876	1.00	1.09
ATOM	114	HG13	VAL	334	-1.079	7.430	2.284	1.00	1.01
ATOM	115	CG2	VAL	334	-0.001	5.228	2.752	1.00	0.36
ATOM	116	HG21	VAL	334	-0.571	4.808	1.936	1.00	1.12
ATOM	117	HG22	VAL	334	-0.675	5.559	3.529	1.00	1.08
ATOM	118	HG23	VAL	334	0.666	4.480	3.149	1.00	0.97
ATOM	119	C	VAL	334	2.491	7.182	0.550	1.00	0.27
ATOM	120	O	VAL	334	2.024	7.874	-0.332	1.00	0.32
ATOM	121	N	GLU	335	3.661	7.443	1.067	1.00	0.31
ATOM	122	HN	GLU	335	4.021	6.874	1.779	1.00	0.35
ATOM	123	CA	GLU	335	4.450	8.608	0.573	1.00	0.38
ATOM	124	HA	GLU	335	3.776	9.380	0.231	1.00	0.40
ATOM	125	CB	GLU	335	5.316	9.155	1.710	1.00	0.41
ATOM	126	HB1	GLU	335	6.358	9.090	1.433	1.00	0.99
ATOM	127	HB2	GLU	335	5.144	8.574	2.604	1.00	1.01
ATOM	128	CG	GLU	335	4.951	10.617	1.971	1.00	1.26
ATOM	129	HG1	GLU	335	3.896	10.691	2.188	1.00	1.99
ATOM	130	HG2	GLU	335	5.181	11.207	1.095	1.00	1.84
ATOM	131	CD	GLU	335	5.752	11.139	3.165	1.00	1.56
ATOM	132	OE1	GLU	335	5.139	11.659	4.082	1.00	2.26
ATOM	133	OE2	GLU	335	6.965	11.009	3.141	1.00	1.81
ATOM	134	C	GLU	335	5.350	8.168	-0.584	1.00	0.41
ATOM	135	O	GLU	335	5.396	8.797	-1.623	1.00	0.48
ATOM	136	N	ASN	336	6.069	7.093	-0.411	1.00	0.41
ATOM	137	HN	ASN	336	6.019	6.603	0.436	1.00	0.39
ATOM	138	CA	ASN	336	6.970	6.612	-1.497	1.00	0.47
ATOM	139	HA	ASN	336	7.711	7.366	-1.712	1.00	0.53
ATOM	140	CB	ASN	336	7.665	5.327	-1.046	1.00	0.50
ATOM	141	HB1	ASN	336	7.812	4.680	-1.897	1.00	0.68
ATOM	142	HB2	ASN	336	7.052	4.824	-0.314	1.00	0.81
ATOM	143	CG	ASN	336	9.021	5.670	-0.429	1.00	0.81
ATOM	144	OD1	ASN	336	10.034	5.130	-0.825	1.00	1.73
ATOM	145	ND2	ASN	336	9.084	6.551	0.531	1.00	1.22
ATOM	146	HD21	ASN	336	8.266	6.986	0.851	1.00	1.80
ATOM	147	HD22	ASN	336	9.949	6.777	0.933	1.00	1.52
ATOM	148	C	ASN	336	6.156	6.334	-2.758	1.00	0.45
ATOM	149	O	ASN	336	6.262	7.036	-3.744	1.00	0.53
ATOM	150	N	VAL	337	5.347	5.312	-2.739	1.00	0.36
ATOM	151	HN	VAL	337	5.277	4.755	-1.936	1.00	0.32
ATOM	152	CA	VAL	337	4.534	4.992	-3.943	1.00	0.36
ATOM	153	HA	VAL	337	5.192	4.703	-4.748	1.00	0.41
ATOM	154	CB	VAL	337	3.585	3.838	-3.623	1.00	0.32

Figure 8 (3 of 19)

ATOM	155	HB	VAL	337	2.904	4.137	-2.841	1.00	0.33
ATOM	156	CG1	VAL	337	2.791	3.468	-4.877	1.00	0.36
ATOM	157	HG11	VAL	337	2.519	4.368	-5.408	1.00	1.01
ATOM	158	HG12	VAL	337	1.898	2.933	-4.592	1.00	1.05
ATOM	159	HG13	VAL	337	3.398	2.843	-5.515	1.00	1.08
ATOM	160	CG2	VAL	337	4.398	2.626	-3.161	1.00	0.36
ATOM	161	HG21	VAL	337	5.411	2.933	-2.948	1.00	1.07
ATOM	162	HG22	VAL	337	4.404	1.879	-3.940	1.00	1.10
ATOM	163	HG23	VAL	337	3.952	2.213	-2.269	1.00	1.07
ATOM	164	C	VAL	337	3.721	6.228	-4.353	1.00	0.43
ATOM	165	O	VAL	337	3.120	6.872	-3.517	1.00	0.44
ATOM	166	N	PRO	338	3.726	6.524	-5.631	1.00	0.51
ATOM	167	CA	PRO	338	2.973	7.700	-6.137	1.00	0.62
ATOM	168	HA	PRO	338	3.272	8.592	-5.611	1.00	0.65
ATOM	169	CB	PRO	338	3.393	7.792	-7.603	1.00	0.71
ATOM	170	HB1	PRO	338	4.218	8.477	-7.717	1.00	0.78
ATOM	171	HB2	PRO	338	2.556	8.101	-8.214	1.00	0.77
ATOM	172	CG	PRO	338	3.823	6.408	-7.962	1.00	0.64
ATOM	173	HG1	PRO	338	4.570	6.440	-8.740	1.00	0.71
ATOM	174	HG2	PRO	338	2.970	5.828	-8.287	1.00	0.63
ATOM	175	CD	PRO	338	4.415	5.810	-6.714	1.00	0.53
ATOM	176	HD2	PRO	338	4.209	4.749	-6.666	1.00	0.48
ATOM	177	HD1	PRO	338	5.476	5.997	-6.666	1.00	0.58
ATOM	178	C	PRO	338	1.460	7.465	-6.006	1.00	0.63
ATOM	179	O	PRO	338	0.977	6.393	-6.311	1.00	0.62
ATOM	180	N	PRO	339	0.758	8.476	-5.549	1.00	0.70
ATOM	181	CA	PRO	339	-0.712	8.361	-5.375	1.00	0.76
ATOM	182	HA	PRO	339	-0.965	7.452	-4.855	1.00	0.72
ATOM	183	CB	PRO	339	-1.066	9.568	-4.514	1.00	0.82
ATOM	184	HB1	PRO	339	-1.075	9.296	-3.470	1.00	0.77
ATOM	185	HB2	PRO	339	-2.027	9.967	-4.808	1.00	0.91
ATOM	186	CG	PRO	339	0.015	10.568	-4.772	1.00	0.87
ATOM	187	HG1	PRO	339	0.205	11.144	-3.880	1.00	0.89
ATOM	188	HG2	PRO	339	-0.278	11.224	-5.580	1.00	0.98
ATOM	189	CD	PRO	339	1.255	9.803	-5.154	1.00	0.78
ATOM	190	HD2	PRO	339	1.756	10.285	-5.982	1.00	0.85
ATOM	191	HD1	PRO	339	1.920	9.713	-4.309	1.00	0.76
ATOM	192	C	PRO	339	-1.443	8.438	-6.723	1.00	0.90
ATOM	193	O	PRO	339	-2.655	8.373	-6.780	1.00	1.13
ATOM	194	N	LEU	340	-0.728	8.587	-7.805	1.00	0.99
ATOM	195	HN	LEU	340	0.247	8.647	-7.749	1.00	1.13
ATOM	196	CA	LEU	340	-1.406	8.677	-9.129	1.00	1.11
ATOM	197	HA	LEU	340	-2.269	9.321	-9.045	1.00	1.47
ATOM	198	CB	LEU	340	-0.439	9.262	-10.161	1.00	1.35
ATOM	199	HB1	LEU	340	0.311	8.527	-10.409	1.00	1.21
ATOM	200	HB2	LEU	340	0.039	10.140	-9.749	1.00	1.73
ATOM	201	CG	LEU	340	-1.213	9.646	-11.424	1.00	1.45
ATOM	202	HG	LEU	340	-1.677	8.764	-11.842	1.00	1.29
ATOM	203	CD1	LEU	340	-2.293	10.670	-11.071	1.00	1.81
ATOM	204	HD11	LEU	340	-1.936	11.311	-10.279	1.00	2.38
ATOM	205	HD12	LEU	340	-3.184	10.156	-10.744	1.00	1.87
ATOM	206	HD13	LEU	340	-2.521	11.267	-11.942	1.00	2.04
ATOM	207	CD2	LEU	340	-0.251	10.253	-12.447	1.00	1.78
ATOM	208	HD21	LEU	340	0.768	10.053	-12.147	1.00	1.70
ATOM	209	HD22	LEU	340	-0.408	11.320	-12.500	1.00	2.32
ATOM	210	HD23	LEU	340	-0.433	9.814	-13.417	1.00	2.30
ATOM	211	C	LEU	340	-1.855	7.287	-9.585	1.00	0.73
ATOM	212	O	LEU	340	-2.990	7.089	-9.972	1.00	0.98
ATOM	213	N	ARG	341	-0.975	6.325	-9.555	1.00	0.40
ATOM	214	HN	ARG	341	-0.062	6.505	-9.247	1.00	0.41
ATOM	215	CA	ARG	341	-1.356	4.953	-10.000	1.00	0.68
ATOM	216	HA	ARG	341	-2.323	4.986	-10.480	1.00	0.99
ATOM	217	CB	ARG	341	-0.311	4.433	-10.993	1.00	1.12
ATOM	218	HB1	ARG	341	-0.378	3.357	-11.054	1.00	1.46
ATOM	219	HB2	ARG	341	0.676	4.713	-10.654	1.00	1.51
ATOM	220	CG	ARG	341	-0.566	5.037	-12.380	1.00	1.89
ATOM	221	HG1	ARG	341	-1.485	4.639	-12.782	1.00	2.12
ATOM	222	HG2	ARG	341	0.253	4.784	-13.038	1.00	2.27
ATOM	223	CD	ARG	341	-0.679	6.562	-12.269	1.00	2.83
ATOM	224	HD1	ARG	341	0.021	6.919	-11.526	1.00	3.07
ATOM	225	HD2	ARG	341	-1.684	6.822	-11.966	1.00	2.89
ATOM	226	NE	ARG	341	-0.375	7.186	-13.589	1.00	3.77
ATOM	227	HE	ARG	341	-1.083	7.281	-14.260	1.00	3.89
ATOM	228	CZ	ARG	341	0.832	7.609	-13.851	1.00	4.65
ATOM	229	NH1	ARG	341	1.861	7.057	-13.266	1.00	5.32
ATOM	230	HH11	ARG	341	1.726	6.310	-12.616	1.00	5.28
ATOM	231	HH12	ARG	341	2.785	7.382	-13.469	1.00	6.08

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ATOM	232	NH2	ARG	341	1.011	8.584	-14.701	1.00	5.18
ATOM	233	HH21	ARG	341	0.223	9.006	-15.149	1.00	5.01
ATOM	234	HH22	ARG	341	1.935	8.909	-14.903	1.00	5.96
ATOM	235	C	ARG	341	-1.421	4.033	-8.790	1.00	0.54
ATOM	236	O	ARG	341	-1.148	2.852	-8.872	1.00	0.50
ATOM	237	N	TRP	342	-1.781	4.573	-7.662	1.00	0.53
ATOM	238	HN	TRP	342	-1.991	5.532	-7.631	1.00	0.61
ATOM	239	CA	TRP	342	-1.866	3.740	-6.426	1.00	0.42
ATOM	240	HA	TRP	342	-0.870	3.445	-6.127	1.00	0.43
ATOM	241	CB	TRP	342	-2.513	4.543	-5.295	1.00	0.43
ATOM	242	HB1	TRP	342	-3.557	4.705	-5.518	1.00	0.47
ATOM	243	HB2	TRP	342	-2.011	5.494	-5.194	1.00	0.50
ATOM	244	CG	TRP	342	-2.387	3.771	-4.022	1.00	0.34
ATOM	245	CD1	TRP	342	-3.270	2.845	-3.583	1.00	0.35
ATOM	246	HD1	TRP	342	-4.177	2.553	-4.091	1.00	0.42
ATOM	247	CD2	TRP	342	-1.330	3.834	-3.021	1.00	0.30
ATOM	248	NE1	TRP	342	-2.819	2.332	-2.380	1.00	0.31
ATOM	249	HE1	TRP	342	-3.276	1.644	-1.853	1.00	0.35
ATOM	250	CE2	TRP	342	-1.628	2.911	-1.991	1.00	0.28
ATOM	251	CE3	TRP	342	-0.153	4.595	-2.910	1.00	0.34
ATOM	252	HE3	TRP	342	0.100	5.308	-3.681	1.00	0.39
ATOM	253	CZ2	TRP	342	-0.785	2.747	-0.889	1.00	0.31
ATOM	254	HZ2	TRP	342	-1.030	2.032	-0.116	1.00	0.35
ATOM	255	CZ3	TRP	342	0.695	4.435	-1.803	1.00	0.37
ATOM	256	HZ3	TRP	342	1.595	5.026	-1.727	1.00	0.44
ATOM	257	CH2	TRP	342	0.380	3.513	-0.795	1.00	0.35
ATOM	258	HH2	TRP	342	1.036	3.397	0.055	1.00	0.42
ATOM	259	C	TRP	342	-2.701	2.485	-6.700	1.00	0.35
ATOM	260	O	TRP	342	-2.269	1.378	-6.444	1.00	0.34
ATOM	261	N	LYS	343	-3.892	2.646	-7.223	1.00	0.36
ATOM	262	HN	LYS	343	-4.218	3.548	-7.425	1.00	0.41
ATOM	263	CA	LYS	343	-4.755	1.458	-7.518	1.00	0.34
ATOM	264	HA	LYS	343	-5.115	1.032	-6.589	1.00	0.35
ATOM	265	CB	LYS	343	-5.946	1.892	-8.375	1.00	0.40
ATOM	266	HB1	LYS	343	-5.592	2.240	-9.334	1.00	0.41
ATOM	267	HB2	LYS	343	-6.478	2.689	-7.875	1.00	0.47
ATOM	268	CG	LYS	343	-6.885	0.702	-8.583	1.00	0.43
ATOM	269	HG1	LYS	343	-7.307	0.406	-7.634	1.00	0.48
ATOM	270	HG2	LYS	343	-6.330	-0.124	-9.004	1.00	0.40
ATOM	271	CD	LYS	343	-8.012	1.099	-9.537	1.00	0.50
ATOM	272	HD1	LYS	343	-7.664	1.024	-10.557	1.00	0.70
ATOM	273	HD2	LYS	343	-8.315	2.116	-9.333	1.00	0.82
ATOM	274	CE	LYS	343	-9.203	0.161	-9.337	1.00	0.87
ATOM	275	HE1	LYS	343	-9.772	0.479	-8.476	1.00	1.44
ATOM	276	HE2	LYS	343	-8.846	-0.846	-9.181	1.00	1.38
ATOM	277	NZ	LYS	343	-10.073	0.197	-10.547	1.00	1.58
ATOM	278	HZ1	LYS	343	-10.202	1.183	-10.852	1.00	2.04
ATOM	279	HZ2	LYS	343	-10.999	-0.221	-10.321	1.00	2.03
ATOM	280	HZ3	LYS	343	-9.625	-0.345	-11.313	1.00	2.15
ATOM	281	C	LYS	343	-3.939	0.407	-8.273	1.00	0.34
ATOM	282	O	LYS	343	-3.994	-0.768	-7.971	1.00	0.36
ATOM	283	N	GLU	344	-3.160	0.822	-9.238	1.00	0.38
ATOM	284	HN	GLU	344	-3.111	1.776	-9.456	1.00	0.40
ATOM	285	CA	GLU	344	-2.324	-0.160	-9.981	1.00	0.44
ATOM	286	HA	GLU	344	-2.959	-0.886	-10.469	1.00	0.47
ATOM	287	CB	GLU	344	-1.472	0.570	-11.021	1.00	0.53
ATOM	288	HB1	GLU	344	-0.656	-0.066	-11.329	1.00	0.90
ATOM	289	HB2	GLU	344	-1.077	1.478	-10.588	1.00	0.68
ATOM	290	CG	GLU	344	-2.333	0.916	-12.237	1.00	1.19
ATOM	291	HG1	GLU	344	-2.676	1.936	-12.157	1.00	1.51
ATOM	292	HG2	GLU	344	-3.184	0.251	-12.276	1.00	1.62
ATOM	293	CD	GLU	344	-1.502	0.759	-13.512	1.00	1.27
ATOM	294	OE1	GLU	344	-0.287	0.793	-13.412	1.00	1.38
ATOM	295	OE2	GLU	344	-2.095	0.607	-14.567	1.00	1.96
ATOM	296	C	GLU	344	-1.418	-0.861	-8.972	1.00	0.42
ATOM	297	O	GLU	344	-1.350	-2.073	-8.911	1.00	0.43
ATOM	298	N	PHE	345	-0.746	-0.096	-8.155	1.00	0.40
ATOM	299	HN	PHE	345	-0.842	0.878	-8.209	1.00	0.40
ATOM	300	CA	PHE	345	0.133	-0.696	-7.117	1.00	0.39
ATOM	301	HA	PHE	345	0.911	-1.281	-7.586	1.00	0.41
ATOM	302	CB	PHE	345	0.754	0.436	-6.287	1.00	0.38
ATOM	303	HB1	PHE	345	-0.028	1.101	-5.953	1.00	0.40
ATOM	304	HB2	PHE	345	1.450	0.987	-6.902	1.00	0.41
ATOM	305	CG	PHE	345	1.485	-0.117	-5.083	1.00	0.36
ATOM	306	CD1	PHE	345	1.435	0.573	-3.867	1.00	1.30
ATOM	307	HD1	PHE	345	0.870	1.491	-3.790	1.00	2.21
ATOM	308	CD2	PHE	345	2.217	-1.306	-5.182	1.00	1.22

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ATOM	309	HD2	PHE	345	2.255	-1.842	-6.117	1.00	2.14
ATOM	310	CE1	PHE	345	2.115	0.077	-2.750	1.00	1.31
ATOM	311	HE1	PHE	345	2.075	0.612	-1.812	1.00	2.23
ATOM	312	CE2	PHE	345	2.896	-1.803	-4.064	1.00	1.21
ATOM	313	HE2	PHE	345	3.461	-2.718	-4.141	1.00	2.12
ATOM	314	CZ	PHE	345	2.846	-1.112	-2.848	1.00	0.37
ATOM	315	HZ	PHE	345	3.372	-1.496	-1.986	1.00	0.39
ATOM	316	C	PHE	345	-0.730	-1.594	-6.232	1.00	0.37
ATOM	317	O	PHE	345	-0.282	-2.595	-5.709	1.00	0.37
ATOM	318	N	VAL	346	-1.977	-1.243	-6.083	1.00	0.37
ATOM	319	HN	VAL	346	-2.313	-0.438	-6.529	1.00	0.39
ATOM	320	CA	VAL	346	-2.896	-2.068	-5.259	1.00	0.40
ATOM	321	HA	VAL	346	-2.407	-2.356	-4.339	1.00	0.40
ATOM	322	CB	VAL	346	-4.150	-1.251	-4.944	1.00	0.52
ATOM	323	HB	VAL	346	-4.658	-1.002	-5.865	1.00	1.31
ATOM	324	CG1	VAL	346	-5.084	-2.064	-4.054	1.00	1.22
ATOM	325	HG11	VAL	346	-4.578	-2.309	-3.134	1.00	1.73
ATOM	326	HG12	VAL	346	-5.366	-2.972	-4.565	1.00	1.84
ATOM	327	HG13	VAL	346	-5.968	-1.482	-3.837	1.00	1.77
ATOM	328	CG2	VAL	346	-3.751	0.034	-4.217	1.00	0.88
ATOM	329	HG21	VAL	346	-3.741	0.856	-4.917	1.00	1.44
ATOM	330	HG22	VAL	346	-2.767	-0.085	-3.788	1.00	1.55
ATOM	331	HG23	VAL	346	-4.463	0.240	-3.431	1.00	1.48
ATOM	332	C	VAL	346	-3.276	-3.317	-6.055	1.00	0.37
ATOM	333	O	VAL	346	-3.377	-4.406	-5.519	1.00	0.37
ATOM	334	N	LYS	347	-3.467	-3.171	-7.341	1.00	0.38
ATOM	335	HN	LYS	347	-3.363	-2.289	-7.756	1.00	0.39
ATOM	336	CA	LYS	347	-3.817	-4.351	-8.176	1.00	0.39
ATOM	337	HA	LYS	347	-4.726	-4.803	-7.806	1.00	0.40
ATOM	338	CB	LYS	347	-4.009	-3.915	-9.631	1.00	0.43
ATOM	339	HB1	LYS	347	-3.428	-4.554	-10.278	1.00	0.81
ATOM	340	HB2	LYS	347	-3.681	-2.892	-9.745	1.00	0.77
ATOM	341	CG	LYS	347	-5.489	-4.022	-10.008	1.00	0.92
ATOM	342	HG1	LYS	347	-6.078	-3.422	-9.332	1.00	1.27
ATOM	343	HG2	LYS	347	-5.803	-5.054	-9.942	1.00	1.24
ATOM	344	CD	LYS	347	-5.688	-3.518	-11.440	1.00	1.11
ATOM	345	HD1	LYS	347	-5.098	-4.116	-12.117	1.00	1.38
ATOM	346	HD2	LYS	347	-5.374	-2.486	-11.504	1.00	1.25
ATOM	347	CE	LYS	347	-7.166	-3.628	-11.821	1.00	1.99
ATOM	348	HE1	LYS	347	-7.728	-2.861	-11.309	1.00	2.39
ATOM	349	HE2	LYS	347	-7.540	-4.600	-11.536	1.00	2.52
ATOM	350	NZ	LYS	347	-7.312	-3.451	-13.294	1.00	2.35
ATOM	351	HZ1	LYS	347	-8.189	-2.930	-13.496	1.00	2.93
ATOM	352	HZ2	LYS	347	-7.350	-4.384	-13.753	1.00	2.57
ATOM	353	HZ3	LYS	347	-6.501	-2.915	-13.662	1.00	2.47
ATOM	354	C	LYS	347	-2.671	-5.354	-8.086	1.00	0.39
ATOM	355	O	LYS	347	-2.873	-6.530	-7.854	1.00	0.41
ATOM	356	N	ARG	348	-1.461	-4.890	-8.246	1.00	0.39
ATOM	357	HN	ARG	348	-1.322	-3.935	-8.416	1.00	0.39
ATOM	358	CA	ARG	348	-0.295	-5.806	-8.146	1.00	0.42
ATOM	359	HA	ARG	348	-0.412	-6.624	-8.842	1.00	0.47
ATOM	360	CB	ARG	348	0.990	-5.037	-8.462	1.00	0.45
ATOM	361	HB1	ARG	348	1.843	-5.678	-8.300	1.00	0.75
ATOM	362	HB2	ARG	348	1.061	-4.173	-7.816	1.00	0.95
ATOM	363	CG	ARG	348	0.968	-4.581	-9.923	1.00	1.12
ATOM	364	HG1	ARG	348	1.496	-3.644	-10.016	1.00	1.84
ATOM	365	HG2	ARG	348	-0.055	-4.451	-10.244	1.00	1.77
ATOM	366	CD	ARG	348	1.649	-5.634	-10.799	1.00	1.28
ATOM	367	HD1	ARG	348	1.059	-6.539	-10.797	1.00	1.54
ATOM	368	HD2	ARG	348	2.634	-5.845	-10.409	1.00	1.76
ATOM	369	NE	ARG	348	1.765	-5.120	-12.193	1.00	2.08
ATOM	370	HE	ARG	348	1.642	-4.165	-12.374	1.00	2.58
ATOM	371	CZ	ARG	348	2.032	-5.940	-13.172	1.00	2.53
ATOM	372	NH1	ARG	348	1.143	-6.818	-13.548	1.00	3.15
ATOM	373	HH11	ARG	348	0.257	-6.862	-13.086	1.00	3.43
ATOM	374	HH12	ARG	348	1.347	-7.447	-14.298	1.00	3.63
ATOM	375	NH2	ARG	348	3.188	-5.883	-13.775	1.00	2.91
ATOM	376	HH21	ARG	348	3.869	-5.210	-13.487	1.00	3.03
ATOM	377	HH22	ARG	348	3.392	-6.512	-14.525	1.00	3.41
ATOM	378	C	ARG	348	-0.231	-6.348	-6.719	1.00	0.40
ATOM	379	O	ARG	348	0.253	-7.435	-6.474	1.00	0.43
ATOM	380	N	LEU	349	-0.732	-5.596	-5.774	1.00	0.36
ATOM	381	HN	LEU	349	-1.124	-4.726	-5.997	1.00	0.35
ATOM	382	CA	LEU	349	-0.718	-6.060	-4.360	1.00	0.37
ATOM	383	HA	LEU	349	0.302	-6.157	-4.020	1.00	0.39
ATOM	384	CB	LEU	349	-1.454	-5.043	-3.486	1.00	0.36
ATOM	385	HB1	LEU	349	-2.389	-5.464	-3.149	1.00	0.48

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ATOM	386	HB2	LEU	349	-1.649	-4.149	-4.062	1.00	0.41
ATOM	387	CG	LEU	349	-0.589	-4.692	-2.275	1.00	0.40
ATOM	388	HG	LEU	349	0.051	-5.529	-2.036	1.00	0.65
ATOM	389	CD1	LEU	349	0.270	-3.469	-2.600	1.00	0.52
ATOM	390	HD11	LEU	349	1.268	-3.789	-2.859	1.00	1.02
ATOM	391	HD12	LEU	349	0.313	-2.820	-1.737	1.00	1.18
ATOM	392	HD13	LEU	349	-0.165	-2.934	-3.431	1.00	1.30
ATOM	393	CD2	LEU	349	-1.491	-4.378	-1.081	1.00	0.56
ATOM	394	HD21	LEU	349	-1.483	-3.315	-0.894	1.00	1.15
ATOM	395	HD22	LEU	349	-1.127	-4.901	-0.208	1.00	1.15
ATOM	396	HD23	LEU	349	-2.500	-4.698	-1.298	1.00	1.11
ATOM	397	C	LEU	349	-1.417	-7.418	-4.274	1.00	0.38
ATOM	398	O	LEU	349	-0.853	-8.389	-3.811	1.00	0.40
ATOM	399	N	GLY	350	-2.637	-7.499	-4.731	1.00	0.38
ATOM	400	HN	GLY	350	-3.073	-6.706	-5.113	1.00	0.39
ATOM	401	CA	GLY	350	-3.358	-8.804	-4.686	1.00	0.41
ATOM	402	HA1	GLY	350	-2.725	-9.545	-4.220	1.00	0.49
ATOM	403	HA2	GLY	350	-3.593	-9.117	-5.693	1.00	0.46
ATOM	404	C	GLY	350	-4.653	-8.672	-3.880	1.00	0.32
ATOM	405	O	GLY	350	-5.238	-9.655	-3.471	1.00	0.32
ATOM	406	N	LEU	351	-5.114	-7.473	-3.650	1.00	0.31
ATOM	407	HN	LEU	351	-4.637	-6.688	-3.988	1.00	0.35
ATOM	408	CA	LEU	351	-6.375	-7.304	-2.876	1.00	0.28
ATOM	409	HA	LEU	351	-6.460	-8.100	-2.151	1.00	0.31
ATOM	410	CB	LEU	351	-6.359	-5.956	-2.153	1.00	0.34
ATOM	411	HB1	LEU	351	-6.954	-5.244	-2.705	1.00	0.78
ATOM	412	HB2	LEU	351	-5.342	-5.598	-2.082	1.00	0.74
ATOM	413	CG	LEU	351	-6.943	-6.124	-0.749	1.00	0.69
ATOM	414	HG	LEU	351	-7.915	-6.590	-0.818	1.00	1.53
ATOM	415	CD1	LEU	351	-6.014	-7.004	0.090	1.00	1.03
ATOM	416	HD11	LEU	351	-5.298	-7.491	-0.556	1.00	1.65
ATOM	417	HD12	LEU	351	-6.598	-7.751	0.608	1.00	1.55
ATOM	418	HD13	LEU	351	-5.492	-6.393	0.811	1.00	1.45
ATOM	419	CD2	LEU	351	-7.078	-4.751	-0.087	1.00	1.36
ATOM	420	HD21	LEU	351	-7.424	-4.034	-0.816	1.00	1.71
ATOM	421	HD22	LEU	351	-6.118	-4.440	0.297	1.00	1.92
ATOM	422	HD23	LEU	351	-7.788	-4.811	0.724	1.00	1.96
ATOM	423	C	LEU	351	-7.566	-7.358	-3.833	1.00	0.28
ATOM	424	O	LEU	351	-7.434	-7.119	-5.017	1.00	0.30
ATOM	425	N	SER	352	-8.730	-7.674	-3.333	1.00	0.32
ATOM	426	HN	SER	352	-8.815	-7.866	-2.376	1.00	0.35
ATOM	427	CA	SER	352	-9.928	-7.746	-4.218	1.00	0.39
ATOM	428	HA	SER	352	-9.812	-8.564	-4.914	1.00	0.42
ATOM	429	CB	SER	352	-11.176	-7.977	-3.366	1.00	0.50
ATOM	430	HB1	SER	352	-11.572	-7.022	-3.044	1.00	0.91
ATOM	431	HB2	SER	352	-10.921	-8.566	-2.501	1.00	0.98
ATOM	432	OG	SER	352	-12.147	-8.672	-4.136	1.00	1.21
ATOM	433	HG	SER	352	-12.309	-9.520	-3.715	1.00	1.44
ATOM	434	C	SER	352	-10.076	-6.435	-4.993	1.00	0.38
ATOM	435	O	SER	352	-10.150	-5.367	-4.418	1.00	0.36
ATOM	436	N	ASP	353	-10.120	-6.507	-6.296	1.00	0.41
ATOM	437	HN	ASP	353	-10.060	-7.379	-6.740	1.00	0.44
ATOM	438	CA	ASP	353	-10.265	-5.266	-7.108	1.00	0.42
ATOM	439	HA	ASP	353	-9.387	-4.650	-6.984	1.00	0.41
ATOM	440	CB	ASP	353	-10.422	-5.639	-8.584	1.00	0.49
ATOM	441	HB1	ASP	353	-11.358	-5.249	-8.956	1.00	1.06
ATOM	442	HB2	ASP	353	-10.413	-6.714	-8.686	1.00	1.01
ATOM	443	CG	ASP	353	-9.267	-5.039	-9.388	1.00	1.39
ATOM	444	OD1	ASP	353	-9.539	-4.389	-10.384	1.00	2.17
ATOM	445	OD2	ASP	353	-8.130	-5.241	-8.995	1.00	2.10
ATOM	446	C	ASP	353	-11.501	-4.493	-6.643	1.00	0.43
ATOM	447	O	ASP	353	-11.497	-3.280	-6.574	1.00	0.40
ATOM	448	N	HIS	354	-12.558	-5.187	-6.319	1.00	0.50
ATOM	449	HN	HIS	354	-12.540	-6.165	-6.379	1.00	0.55
ATOM	450	CA	HIS	354	-13.790	-4.490	-5.856	1.00	0.56
ATOM	451	HA	HIS	354	-14.088	-3.757	-6.591	1.00	0.58
ATOM	452	CB	HIS	354	-14.914	-5.511	-5.663	1.00	0.68
ATOM	453	HB1	HIS	354	-15.268	-5.468	-4.644	1.00	1.10
ATOM	454	HB2	HIS	354	-14.539	-6.502	-5.873	1.00	1.33
ATOM	455	CG	HIS	354	-16.047	-5.194	-6.600	1.00	1.29
ATOM	456	ND1	HIS	354	-15.862	-5.075	-7.969	1.00	2.24
ATOM	457	HD1	HIS	354	-15.015	-5.182	-8.450	1.00	2.68
ATOM	458	CD2	HIS	354	-17.382	-4.965	-6.381	1.00	2.16
ATOM	459	HD2	HIS	354	-17.866	-4.981	-5.416	1.00	2.62
ATOM	460	CE1	HIS	354	-17.057	-4.787	-8.516	1.00	3.03
ATOM	461	HE1	HIS	354	-17.219	-4.638	-9.573	1.00	3.92
ATOM	462	NE2	HIS	354	-18.019	-4.708	-7.592	1.00	3.02

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ATOM	463	C	HIS	354	-13.502	-3.790	-4.528	1.00	0.49
ATOM	464	O	HIS	354	-13.852	-2.643	-4.332	1.00	0.49
ATOM	465	N	GLU	355	-12.860	-4.467	-3.616	1.00	0.49
ATOM	466	HN	GLU	355	-12.581	-5.389	-3.794	1.00	0.50
ATOM	467	CA	GLU	355	-12.546	-3.832	-2.306	1.00	0.49
ATOM	468	HA	GLU	355	-13.465	-3.596	-1.789	1.00	0.56
ATOM	469	CB	GLU	355	-11.713	-4.794	-1.456	1.00	0.55
ATOM	470	HB1	GLU	355	-10.802	-5.041	-1.980	1.00	0.96
ATOM	471	HB2	GLU	355	-12.280	-5.695	-1.273	1.00	0.95
ATOM	472	CG	GLU	355	-11.366	-4.128	-0.123	1.00	1.01
ATOM	473	HG1	GLU	355	-12.239	-3.628	0.267	1.00	1.63
ATOM	474	HG2	GLU	355	-10.575	-3.408	-0.276	1.00	1.68
ATOM	475	CD	GLU	355	-10.904	-5.192	0.873	1.00	1.40
ATOM	476	OE1	GLU	355	-9.849	-5.010	1.458	1.00	2.07
ATOM	477	OE2	GLU	355	-11.613	-6.172	1.033	1.00	1.91
ATOM	478	C	GLU	355	-11.753	-2.548	-2.551	1.00	0.40
ATOM	479	O	GLU	355	-11.879	-1.581	-1.828	1.00	0.43
ATOM	480	N	ILE	356	-10.942	-2.533	-3.574	1.00	0.33
ATOM	481	HN	ILE	356	-10.861	-3.324	-4.146	1.00	0.34
ATOM	482	CA	ILE	356	-10.143	-1.313	-3.876	1.00	0.30
ATOM	483	HA	ILE	356	-9.520	-1.071	-3.028	1.00	0.35
ATOM	484	CB	ILE	356	-9.258	-1.577	-5.097	1.00	0.33
ATOM	485	HB	ILE	356	-9.875	-1.872	-5.933	1.00	0.36
ATOM	486	CG1	ILE	356	-8.270	-2.698	-4.766	1.00	0.39
ATOM	487	HG11	ILE	356	-8.815	-3.601	-4.537	1.00	0.38
ATOM	488	HG12	ILE	356	-7.674	-2.411	-3.913	1.00	0.43
ATOM	489	CG2	ILE	356	-8.484	-0.305	-5.457	1.00	0.39
ATOM	490	HG21	ILE	356	-8.663	0.450	-4.706	1.00	1.08
ATOM	491	HG22	ILE	356	-8.816	0.057	-6.419	1.00	1.06
ATOM	492	HG23	ILE	356	-7.428	-0.527	-5.501	1.00	1.06
ATOM	493	CD1	ILE	356	-7.357	-2.947	-5.967	1.00	0.47
ATOM	494	HD11	ILE	356	-6.572	-2.207	-5.981	1.00	1.16
ATOM	495	HD12	ILE	356	-7.934	-2.878	-6.877	1.00	1.16
ATOM	496	HD13	ILE	356	-6.922	-3.933	-5.889	1.00	1.07
ATOM	497	C	ILE	356	-11.090	-0.147	-4.167	1.00	0.31
ATOM	498	O	ILE	356	-10.833	0.981	-3.799	1.00	0.34
ATOM	499	N	ASP	357	-12.187	-0.412	-4.824	1.00	0.34
ATOM	500	HN	ASP	357	-12.378	-1.330	-5.111	1.00	0.37
ATOM	501	CA	ASP	357	-13.151	0.681	-5.134	1.00	0.40
ATOM	502	HA	ASP	357	-12.619	1.522	-5.554	1.00	0.43
ATOM	503	CB	ASP	357	-14.187	0.178	-6.142	1.00	0.48
ATOM	504	HB1	ASP	357	-15.158	0.575	-5.888	1.00	0.96
ATOM	505	HB2	ASP	357	-14.220	-0.901	-6.115	1.00	0.95
ATOM	506	CG	ASP	357	-13.801	0.642	-7.548	1.00	1.24
ATOM	507	OD1	ASP	357	-13.679	-0.205	-8.417	1.00	1.82
ATOM	508	OD2	ASP	357	-13.635	1.837	-7.732	1.00	2.06
ATOM	509	C	ASP	357	-13.858	1.113	-3.848	1.00	0.41
ATOM	510	O	ASP	357	-14.333	2.226	-3.733	1.00	0.45
ATOM	511	N	ARG	358	-13.932	0.241	-2.880	1.00	0.43
ATOM	512	HN	ARG	358	-13.543	-0.651	-2.995	1.00	0.44
ATOM	513	CA	ARG	358	-14.609	0.599	-1.601	1.00	0.49
ATOM	514	HA	ARG	358	-15.482	1.186	-1.816	1.00	0.50
ATOM	515	CB	ARG	358	-15.019	-0.677	-0.863	1.00	0.57
ATOM	516	HB1	ARG	358	-15.605	-0.417	0.006	1.00	0.92
ATOM	517	HB2	ARG	358	-14.134	-1.214	-0.554	1.00	0.75
ATOM	518	CG	ARG	358	-15.854	-1.561	-1.791	1.00	1.10
ATOM	519	HG1	ARG	358	-15.244	-1.895	-2.616	1.00	1.46
ATOM	520	HG2	ARG	358	-16.693	-0.995	-2.168	1.00	1.66
ATOM	521	CD	ARG	358	-16.365	-2.777	-1.015	1.00	1.30
ATOM	522	HD1	ARG	358	-15.551	-3.214	-0.455	1.00	1.75
ATOM	523	HD2	ARG	358	-16.759	-3.506	-1.707	1.00	1.56
ATOM	524	NE	ARG	358	-17.441	-2.352	-0.076	1.00	1.98
ATOM	525	HE	ARG	358	-17.515	-1.412	0.193	1.00	2.56
ATOM	526	CZ	ARG	358	-18.286	-3.232	0.390	1.00	2.40
ATOM	527	NH1	ARG	358	-18.371	-3.438	1.676	1.00	3.04
ATOM	528	HH11	ARG	358	-17.790	-2.922	2.305	1.00	3.32
ATOM	529	HH12	ARG	358	-19.018	-4.112	2.032	1.00	3.55
ATOM	530	NH2	ARG	358	-19.044	-3.905	-0.431	1.00	2.82
ATOM	531	HH21	ARG	358	-18.979	-3.747	-1.416	1.00	3.00
ATOM	532	HH22	ARG	358	-19.691	-4.579	-0.075	1.00	3.31
ATOM	533	C	ARG	358	-13.660	1.412	-0.720	1.00	0.50
ATOM	534	O	ARG	358	-14.079	2.100	0.190	1.00	0.56
ATOM	535	N	LEU	359	-12.388	1.337	-0.979	1.00	0.48
ATOM	536	HN	LEU	359	-12.077	0.777	-1.715	1.00	0.45
ATOM	537	CA	LEU	359	-11.412	2.104	-0.151	1.00	0.54
ATOM	538	HA	LEU	359	-11.525	1.824	0.886	1.00	0.61
ATOM	539	CB	LEU	359	-9.978	1.800	-0.608	1.00	0.56

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ATOM	540	HB1	LEU	359	-9.284	2.152	0.141	1.00	0.78
ATOM	541	HB2	LEU	359	-9.786	2.309	-1.541	1.00	0.86
ATOM	542	CG	LEU	359	-9.784	0.291	-0.806	1.00	0.58
ATOM	543	HG	LEU	359	-10.359	-0.035	-1.658	1.00	1.08
ATOM	544	CD1	LEU	359	-8.304	-0.003	-1.054	1.00	0.81
ATOM	545	HD11	LEU	359	-7.991	0.471	-1.972	1.00	1.55
ATOM	546	HD12	LEU	359	-8.157	-1.070	-1.131	1.00	1.29
ATOM	547	HD13	LEU	359	-7.719	0.382	-0.232	1.00	1.26
ATOM	548	CD2	LEU	359	-10.240	-0.469	0.443	1.00	0.98
ATOM	549	HD21	LEU	359	-11.287	-0.717	0.351	1.00	1.62
ATOM	550	HD22	LEU	359	-10.091	0.150	1.315	1.00	1.46
ATOM	551	HD23	LEU	359	-9.662	-1.376	0.542	1.00	1.49
ATOM	552	C	LEU	359	-11.684	3.601	-0.305	1.00	0.58
ATOM	553	O	LEU	359	-11.683	4.343	0.657	1.00	0.67
ATOM	554	N	GLU	360	-11.916	4.050	-1.507	1.00	0.59
ATOM	555	HN	GLU	360	-11.913	3.435	-2.270	1.00	0.56
ATOM	556	CA	GLU	360	-12.188	5.499	-1.720	1.00	0.72
ATOM	557	HA	GLU	360	-11.354	6.079	-1.352	1.00	0.78
ATOM	558	CB	GLU	360	-12.379	5.770	-3.213	1.00	0.81
ATOM	559	HB1	GLU	360	-13.419	5.640	-3.473	1.00	1.05
ATOM	560	HB2	GLU	360	-11.775	5.080	-3.784	1.00	0.96
ATOM	561	CG	GLU	360	-11.953	7.205	-3.530	1.00	1.67
ATOM	562	HG1	GLU	360	-11.009	7.414	-3.050	1.00	2.26
ATOM	563	HG2	GLU	360	-12.703	7.892	-3.164	1.00	2.21
ATOM	564	CD	GLU	360	-11.802	7.371	-5.043	1.00	1.94
ATOM	565	OE1	GLU	360	-12.814	7.358	-5.724	1.00	2.33
ATOM	566	OE2	GLU	360	-10.677	7.508	-5.494	1.00	2.49
ATOM	567	C	GLU	360	-13.456	5.894	-0.962	1.00	0.76
ATOM	568	O	GLU	360	-13.577	6.997	-0.466	1.00	0.86
ATOM	569	N	LEU	361	-14.403	5.001	-0.868	1.00	0.74
ATOM	570	HN	LEU	361	-14.285	4.117	-1.274	1.00	0.69
ATOM	571	CA	LEU	361	-15.662	5.325	-0.141	1.00	0.86
ATOM	572	HA	LEU	361	-16.056	6.264	-0.503	1.00	0.95
ATOM	573	CB	LEU	361	-16.688	4.215	-0.382	1.00	0.96
ATOM	574	HB1	LEU	361	-16.739	3.577	0.488	1.00	1.36
ATOM	575	HB2	LEU	361	-16.391	3.631	-1.241	1.00	1.11
ATOM	576	CG	LEU	361	-18.063	4.834	-0.636	1.00	1.71
ATOM	577	HG	LEU	361	-18.061	5.863	-0.306	1.00	2.43
ATOM	578	CD1	LEU	361	-18.381	4.780	-2.131	1.00	2.03
ATOM	579	HD11	LEU	361	-17.459	4.767	-2.695	1.00	2.51
ATOM	580	HD12	LEU	361	-18.959	5.649	-2.408	1.00	2.43
ATOM	581	HD13	LEU	361	-18.948	3.887	-2.347	1.00	2.25
ATOM	582	CD2	LEU	361	-19.125	4.050	0.137	1.00	2.33
ATOM	583	HD21	LEU	361	-18.693	3.135	0.515	1.00	2.74
ATOM	584	HD22	LEU	361	-19.949	3.814	-0.520	1.00	2.84
ATOM	585	HD23	LEU	361	-19.484	4.646	0.963	1.00	2.65
ATOM	586	C	LEU	361	-15.371	5.437	1.357	1.00	0.89
ATOM	587	O	LEU	361	-15.986	6.211	2.063	1.00	1.03
ATOM	588	N	GLN	362	-14.435	4.669	1.848	1.00	0.83
ATOM	589	HN	GLN	362	-13.950	4.052	1.261	1.00	0.76
ATOM	590	CA	GLN	362	-14.104	4.732	3.300	1.00	0.95
ATOM	591	HA	GLN	362	-14.952	4.394	3.877	1.00	1.11
ATOM	592	CB	GLN	362	-12.900	3.834	3.589	1.00	0.97
ATOM	593	HB1	GLN	362	-12.015	4.442	3.701	1.00	1.37
ATOM	594	HB2	GLN	362	-12.761	3.143	2.769	1.00	1.26
ATOM	595	CG	GLN	362	-13.144	3.051	4.881	1.00	1.37
ATOM	596	HG1	GLN	362	-14.040	2.459	4.779	1.00	1.85
ATOM	597	HG2	GLN	362	-13.260	3.743	5.703	1.00	2.00
ATOM	598	CD	GLN	362	-11.954	2.129	5.153	1.00	1.42
ATOM	599	OE1	GLN	362	-10.989	2.129	4.415	1.00	1.39
ATOM	600	NE2	GLN	362	-11.983	1.336	6.190	1.00	2.20
ATOM	601	HE21	GLN	362	-12.761	1.336	6.785	1.00	2.72
ATOM	602	HE22	GLN	362	-11.226	0.742	6.373	1.00	2.46
ATOM	603	C	GLN	362	-13.768	6.174	3.686	1.00	1.04
ATOM	604	O	GLN	362	-14.293	6.709	4.642	1.00	1.30
ATOM	605	N	ASN	363	-12.896	6.809	2.950	1.00	1.02
ATOM	606	HN	ASN	363	-12.483	6.360	2.183	1.00	1.03
ATOM	607	CA	ASN	363	-12.529	8.214	3.279	1.00	1.24
ATOM	608	HA	ASN	363	-13.404	8.741	3.631	1.00	1.45
ATOM	609	CB	ASN	363	-11.459	8.218	4.373	1.00	1.35
ATOM	610	HB1	ASN	363	-10.738	8.994	4.170	1.00	1.46
ATOM	611	HB2	ASN	363	-10.962	7.259	4.392	1.00	1.49
ATOM	612	CG	ASN	363	-12.118	8.479	5.728	1.00	2.07
ATOM	613	OD1	ASN	363	-12.924	9.378	5.862	1.00	2.60
ATOM	614	ND2	ASN	363	-11.809	7.724	6.747	1.00	2.76
ATOM	615	HD21	ASN	363	-11.159	6.999	6.640	1.00	2.99
ATOM	616	HD22	ASN	363	-12.227	7.883	7.619	1.00	3.34

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ATOM	617	C	ASN	363	-11.987	8.908	2.028	1.00	1.40
ATOM	618	O	ASN	363	-10.813	9.206	1.930	1.00	2.25
ATOM	619	N	GLY	364	-12.834	9.166	1.069	1.00	1.09
ATOM	620	HN	GLY	364	-13.777	8.917	1.169	1.00	1.35
ATOM	621	CA	GLY	364	-12.371	9.840	-0.177	1.00	1.25
ATOM	622	HA1	GLY	364	-13.191	9.907	-0.876	1.00	1.54
ATOM	623	HA2	GLY	364	-11.569	9.264	-0.618	1.00	1.26
ATOM	624	C	GLY	364	-11.868	11.249	0.148	1.00	1.27
ATOM	625	O	GLY	364	-11.155	11.856	-0.626	1.00	1.55
ATOM	626	N	ARG	365	-12.234	11.780	1.286	1.00	1.27
ATOM	627	HN	ARG	365	-12.811	11.278	1.898	1.00	1.42
ATOM	628	CA	ARG	365	-11.777	13.151	1.654	1.00	1.36
ATOM	629	HA	ARG	365	-12.239	13.872	0.997	1.00	1.70
ATOM	630	CB	ARG	365	-12.178	13.450	3.100	1.00	1.65
ATOM	631	HB1	ARG	365	-11.321	13.822	3.641	1.00	1.87
ATOM	632	HB2	ARG	365	-12.535	12.544	3.568	1.00	2.13
ATOM	633	CG	ARG	365	-13.286	14.506	3.116	1.00	2.23
ATOM	634	HG1	ARG	365	-13.961	14.332	2.291	1.00	2.71
ATOM	635	HG2	ARG	365	-12.848	15.489	3.021	1.00	2.50
ATOM	636	CD	ARG	365	-14.059	14.415	4.433	1.00	2.72
ATOM	637	HD1	ARG	365	-14.622	13.494	4.458	1.00	2.80
ATOM	638	HD2	ARG	365	-14.737	15.253	4.510	1.00	3.17
ATOM	639	NE	ARG	365	-13.102	14.445	5.574	1.00	3.34
ATOM	640	HE	ARG	365	-12.202	14.073	5.468	1.00	3.67
ATOM	641	CZ	ARG	365	-13.463	14.966	6.714	1.00	3.90
ATOM	642	NH1	ARG	365	-12.721	15.879	7.279	1.00	4.42
ATOM	643	HH11	ARG	365	-11.875	16.179	6.838	1.00	4.48
ATOM	644	HH12	ARG	365	-12.998	16.279	8.153	1.00	4.97
ATOM	645	NH2	ARG	365	-14.567	14.575	7.290	1.00	4.33
ATOM	646	HH21	ARG	365	-15.136	13.876	6.857	1.00	4.29
ATOM	647	HH22	ARG	365	-14.844	14.975	8.164	1.00	4.93
ATOM	648	C	ARG	365	-10.254	13.242	1.518	1.00	0.94
ATOM	649	O	ARG	365	-9.739	13.797	0.567	1.00	1.24
ATOM	650	N	CYS	366	-9.529	12.701	2.459	1.00	0.68
ATOM	651	HN	CYS	366	-9.962	12.257	3.217	1.00	0.91
ATOM	652	CA	CYS	366	-8.043	12.759	2.378	1.00	0.77
ATOM	653	HA	CYS	366	-7.745	13.675	1.890	1.00	1.02
ATOM	654	CB	CYS	366	-7.450	12.716	3.787	1.00	1.12
ATOM	655	HB1	CYS	366	-6.580	12.076	3.793	1.00	1.32
ATOM	656	HB2	CYS	366	-8.186	12.329	4.476	1.00	1.41
ATOM	657	SG	CYS	366	-6.972	14.387	4.291	1.00	1.97
ATOM	658	HG	CYS	366	-7.177	14.985	3.568	1.00	2.29
ATOM	659	C	CYS	366	-7.530	11.564	1.572	1.00	0.67
ATOM	660	O	CYS	366	-7.880	10.430	1.833	1.00	0.66
ATOM	661	N	LEU	367	-6.705	11.809	0.592	1.00	0.68
ATOM	662	HN	LEU	367	-6.437	12.731	0.397	1.00	0.77
ATOM	663	CA	LEU	367	-6.172	10.689	-0.232	1.00	0.65
ATOM	664	HA	LEU	367	-6.992	10.170	-0.707	1.00	0.65
ATOM	665	CB	LEU	367	-5.235	11.247	-1.303	1.00	0.79
ATOM	666	HB1	LEU	367	-4.373	11.692	-0.831	1.00	1.21
ATOM	667	HB2	LEU	367	-5.757	11.995	-1.883	1.00	1.27
ATOM	668	CG	LEU	367	-4.782	10.113	-2.222	1.00	1.20
ATOM	669	HG	LEU	367	-4.447	9.278	-1.624	1.00	1.65
ATOM	670	CD1	LEU	367	-5.951	9.673	-3.105	1.00	1.87
ATOM	671	HD11	LEU	367	-6.575	10.525	-3.327	1.00	2.32
ATOM	672	HD12	LEU	367	-6.533	8.926	-2.585	1.00	2.43
ATOM	673	HD13	LEU	367	-5.570	9.256	-4.025	1.00	2.19
ATOM	674	CD2	LEU	367	-3.634	10.606	-3.103	1.00	1.50
ATOM	675	HD21	LEU	367	-3.857	10.392	-4.138	1.00	1.88
ATOM	676	HD22	LEU	367	-2.722	10.104	-2.819	1.00	1.84
ATOM	677	HD23	LEU	367	-3.513	11.672	-2.974	1.00	2.01
ATOM	678	C	LEU	367	-5.403	9.715	0.663	1.00	0.56
ATOM	679	O	LEU	367	-5.581	8.515	0.586	1.00	0.53
ATOM	680	N	ARG	368	-4.551	10.220	1.516	1.00	0.56
ATOM	681	HN	ARG	368	-4.425	11.191	1.564	1.00	0.62
ATOM	682	CA	ARG	368	-3.772	9.323	2.422	1.00	0.51
ATOM	683	HA	ARG	368	-3.041	8.768	1.846	1.00	0.50
ATOM	684	CB	ARG	368	-3.053	10.167	3.477	1.00	0.58
ATOM	685	HB1	ARG	368	-3.231	9.746	4.456	1.00	1.21
ATOM	686	HB2	ARG	368	-3.431	11.179	3.446	1.00	0.95
ATOM	687	CG	ARG	368	-1.550	10.173	3.193	1.00	1.39
ATOM	688	HG1	ARG	368	-1.368	10.626	2.230	1.00	1.89
ATOM	689	HG2	ARG	368	-1.180	9.158	3.190	1.00	2.10
ATOM	690	CD	ARG	368	-0.830	10.978	4.276	1.00	1.56
ATOM	691	HD1	ARG	368	0.130	10.529	4.480	1.00	2.12
ATOM	692	HD2	ARG	368	-1.425	10.981	5.177	1.00	1.61
ATOM	693	NE	ARG	368	-0.634	12.378	3.804	1.00	2.27

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ATOM	694	HE	ARG	368	-1.079	12.686	2.987	1.00	2.72
ATOM	695	CZ	ARG	368	0.130	13.193	4.478	1.00	2.82
ATOM	696	NH1	ARG	368	0.010	13.279	5.775	1.00	3.23
ATOM	697	HH11	ARG	368	-0.668	12.720	6.253	1.00	3.31
ATOM	698	HH12	ARG	368	0.596	13.904	6.291	1.00	3.77
ATOM	699	NH2	ARG	368	1.014	13.923	3.854	1.00	3.43
ATOM	700	HH21	ARG	368	1.105	13.858	2.861	1.00	3.61
ATOM	701	HH22	ARG	368	1.600	14.548	4.370	1.00	3.97
ATOM	702	C	ARG	368	-4.721	8.343	3.116	1.00	0.47
ATOM	703	O	ARG	368	-4.368	7.218	3.391	1.00	0.42
ATOM	704	N	GLU	369	-5.926	8.758	3.395	1.00	0.51
ATOM	705	HN	GLU	369	-6.199	9.669	3.160	1.00	0.55
ATOM	706	CA	GLU	369	-6.886	7.839	4.065	1.00	0.51
ATOM	707	HA	GLU	369	-6.457	7.486	4.991	1.00	0.52
ATOM	708	CB	GLU	369	-8.193	8.580	4.354	1.00	0.59
ATOM	709	HB1	GLU	369	-8.985	8.162	3.751	1.00	0.79
ATOM	710	HB2	GLU	369	-8.073	9.628	4.117	1.00	1.16
ATOM	711	CG	GLU	369	-8.549	8.428	5.834	1.00	1.21
ATOM	712	HG1	GLU	369	-7.644	8.399	6.421	1.00	1.98
ATOM	713	HG2	GLU	369	-9.102	7.511	5.978	1.00	1.67
ATOM	714	CD	GLU	369	-9.404	9.616	6.280	1.00	1.53
ATOM	715	OE1	GLU	369	-10.074	9.492	7.292	1.00	2.22
ATOM	716	OE2	GLU	369	-9.375	10.630	5.602	1.00	1.87
ATOM	717	C	GLU	369	-7.163	6.648	3.150	1.00	0.49
ATOM	718	O	GLU	369	-7.149	5.510	3.575	1.00	0.50
ATOM	719	N	ALA	370	-7.404	6.898	1.893	1.00	0.50
ATOM	720	HN	ALA	370	-7.403	7.823	1.568	1.00	0.51
ATOM	721	CA	ALA	370	-7.670	5.776	0.953	1.00	0.52
ATOM	722	HA	ALA	370	-8.472	5.163	1.337	1.00	0.55
ATOM	723	CB	ALA	370	-8.059	6.334	-0.417	1.00	0.59
ATOM	724	HB1	ALA	370	-7.938	7.407	-0.415	1.00	1.16
ATOM	725	HB2	ALA	370	-9.090	6.089	-0.626	1.00	1.02
ATOM	726	HB3	ALA	370	-7.425	5.901	-1.176	1.00	1.17
ATOM	727	C	ALA	370	-6.402	4.933	0.820	1.00	0.46
ATOM	728	O	ALA	370	-6.425	3.727	0.969	1.00	0.44
ATOM	729	N	GLN	371	-5.291	5.562	0.551	1.00	0.45
ATOM	730	HN	GLN	371	-5.292	6.536	0.442	1.00	0.48
ATOM	731	CA	GLN	371	-4.021	4.799	0.421	1.00	0.41
ATOM	732	HA	GLN	371	-4.127	4.049	-0.352	1.00	0.42
ATOM	733	CB	GLN	371	-2.880	5.754	0.061	1.00	0.45
ATOM	734	HB1	GLN	371	-2.031	5.185	-0.287	1.00	0.89
ATOM	735	HB2	GLN	371	-2.598	6.324	0.935	1.00	0.83
ATOM	736	CG	GLN	371	-3.336	6.709	-1.045	1.00	0.79
ATOM	737	HG1	GLN	371	-3.604	7.661	-0.611	1.00	1.41
ATOM	738	HG2	GLN	371	-4.194	6.289	-1.551	1.00	1.47
ATOM	739	CD	GLN	371	-2.199	6.910	-2.048	1.00	1.42
ATOM	740	OE1	GLN	371	-2.220	6.354	-3.128	1.00	2.12
ATOM	741	NE2	GLN	371	-1.199	7.688	-1.735	1.00	2.08
ATOM	742	HE21	GLN	371	-1.181	8.138	-0.865	1.00	2.32
ATOM	743	HE22	GLN	371	-0.464	7.821	-2.370	1.00	2.71
ATOM	744	C	GLN	371	-3.718	4.117	1.755	1.00	0.37
ATOM	745	O	GLN	371	-3.287	2.982	1.798	1.00	0.35
ATOM	746	N	TYR	372	-3.955	4.794	2.849	1.00	0.38
ATOM	747	HN	TYR	372	-4.315	5.705	2.798	1.00	0.41
ATOM	748	CA	TYR	372	-3.693	4.167	4.172	1.00	0.38
ATOM	749	HA	TYR	372	-2.712	3.713	4.167	1.00	0.37
ATOM	750	CB	TYR	372	-3.766	5.221	5.278	1.00	0.43
ATOM	751	HB1	TYR	372	-4.797	5.391	5.549	1.00	0.46
ATOM	752	HB2	TYR	372	-3.326	6.142	4.929	1.00	0.45
ATOM	753	CG	TYR	372	-3.004	4.730	6.483	1.00	0.43
ATOM	754	CD1	TYR	372	-3.630	3.899	7.420	1.00	1.25
ATOM	755	HD1	TYR	372	-4.662	3.611	7.282	1.00	2.15
ATOM	756	CD2	TYR	372	-1.667	5.103	6.661	1.00	1.32
ATOM	757	HD2	TYR	372	-1.185	5.744	5.938	1.00	2.21
ATOM	758	CE1	TYR	372	-2.918	3.442	8.535	1.00	1.26
ATOM	759	HE1	TYR	372	-3.400	2.800	9.258	1.00	2.15
ATOM	760	CE2	TYR	372	-0.955	4.647	7.776	1.00	1.34
ATOM	761	HE2	TYR	372	0.077	4.935	7.912	1.00	2.24
ATOM	762	CZ	TYR	372	-1.580	3.816	8.713	1.00	0.51
ATOM	763	OH	TYR	372	-0.878	3.366	9.812	1.00	0.57
ATOM	764	HH	TYR	372	-1.260	3.771	10.594	1.00	0.96
ATOM	765	C	TYR	372	-4.749	3.094	4.416	1.00	0.38
ATOM	766	O	TYR	372	-4.512	2.119	5.100	1.00	0.39
ATOM	767	N	SER	373	-5.913	3.260	3.848	1.00	0.40
ATOM	768	HN	SER	373	-6.079	4.049	3.290	1.00	0.42
ATOM	769	CA	SER	373	-6.978	2.240	4.033	1.00	0.43
ATOM	770	HA	SER	373	-7.177	2.110	5.087	1.00	0.45

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ATOM	771	CB	SER	373	-8.253	2.689	3.317	1.00	0.48
ATOM	772	HB1	SER	373	-8.878	1.828	3.123	1.00	1.00
ATOM	773	HB2	SER	373	-7.997	3.162	2.384	1.00	0.75
ATOM	774	OG	SER	373	-8.948	3.619	4.138	1.00	1.18
ATOM	775	HG	SER	373	-9.193	4.371	3.592	1.00	1.47
ATOM	776	C	SER	373	-6.490	0.921	3.437	1.00	0.41
ATOM	777	O	SER	373	-6.780	-0.145	3.937	1.00	0.44
ATOM	778	N	MET	374	-5.732	0.992	2.377	1.00	0.38
ATOM	779	HN	MET	374	-5.502	1.867	1.999	1.00	0.38
ATOM	780	CA	MET	374	-5.200	-0.249	1.749	1.00	0.36
ATOM	781	HA	MET	374	-5.998	-0.967	1.632	1.00	0.39
ATOM	782	CB	MET	374	-4.614	0.110	0.365	1.00	0.36
ATOM	783	HB1	MET	374	-4.139	1.078	0.424	1.00	0.38
ATOM	784	HB2	MET	374	-5.416	0.155	-0.356	1.00	0.40
ATOM	785	CG	MET	374	-3.580	-0.932	-0.098	1.00	0.35
ATOM	786	HG1	MET	374	-2.719	-0.894	0.553	1.00	0.76
ATOM	787	HG2	MET	374	-3.274	-0.708	-1.109	1.00	0.77
ATOM	788	SD	MET	374	-4.304	-2.589	-0.043	1.00	1.06
ATOM	789	CE	MET	374	-5.776	-2.214	-1.020	1.00	0.38
ATOM	790	HE1	MET	374	-5.989	-3.043	-1.679	1.00	1.01
ATOM	791	HE2	MET	374	-5.602	-1.326	-1.606	1.00	1.16
ATOM	792	HE3	MET	374	-6.613	-2.048	-0.356	1.00	1.05
ATOM	793	C	MET	374	-4.116	-0.828	2.666	1.00	0.33
ATOM	794	O	MET	374	-4.136	-1.991	3.018	1.00	0.37
ATOM	795	N	LEU	375	-3.173	-0.017	3.048	1.00	0.31
ATOM	796	HN	LEU	375	-3.183	0.916	2.749	1.00	0.32
ATOM	797	CA	LEU	375	-2.079	-0.496	3.936	1.00	0.32
ATOM	798	HA	LEU	375	-1.630	-1.382	3.512	1.00	0.32
ATOM	799	CB	LEU	375	-1.023	0.611	4.046	1.00	0.33
ATOM	800	HB1	LEU	375	-0.468	0.483	4.962	1.00	0.39
ATOM	801	HB2	LEU	375	-1.516	1.572	4.060	1.00	0.36
ATOM	802	CG	LEU	375	-0.049	0.556	2.850	1.00	0.29
ATOM	803	HG	LEU	375	0.693	-0.208	3.028	1.00	0.34
ATOM	804	CD1	LEU	375	-0.797	0.246	1.545	1.00	0.31
ATOM	805	HD11	LEU	375	-1.039	-0.806	1.513	1.00	1.12
ATOM	806	HD12	LEU	375	-0.171	0.497	0.703	1.00	1.00
ATOM	807	HD13	LEU	375	-1.706	0.827	1.504	1.00	1.03
ATOM	808	CD2	LEU	375	0.643	1.912	2.704	1.00	0.32
ATOM	809	HD21	LEU	375	1.428	1.998	3.439	1.00	0.98
ATOM	810	HD22	LEU	375	-0.078	2.702	2.852	1.00	1.08
ATOM	811	HD23	LEU	375	1.067	1.994	1.713	1.00	1.10
ATOM	812	C	LEU	375	-2.648	-0.821	5.319	1.00	0.36
ATOM	813	O	LEU	375	-2.103	-1.619	6.055	1.00	0.40
ATOM	814	N	ALA	376	-3.746	-0.213	5.673	1.00	0.37
ATOM	815	HN	ALA	376	-4.172	0.423	5.061	1.00	0.37
ATOM	816	CA	ALA	376	-4.357	-0.490	7.002	1.00	0.43
ATOM	817	HA	ALA	376	-3.584	-0.758	7.707	1.00	0.46
ATOM	818	CB	ALA	376	-5.088	0.761	7.495	1.00	0.48
ATOM	819	HB1	ALA	376	-5.716	1.146	6.705	1.00	1.09
ATOM	820	HB2	ALA	376	-4.365	1.512	7.778	1.00	1.10
ATOM	821	HB3	ALA	376	-5.698	0.508	8.350	1.00	1.17
ATOM	822	C	ALA	376	-5.350	-1.647	6.867	1.00	0.43
ATOM	823	O	ALA	376	-5.228	-2.666	7.520	1.00	0.46
ATOM	824	N	THR	377	-6.332	-1.499	6.018	1.00	0.42
ATOM	825	HN	THR	377	-6.409	-0.672	5.498	1.00	0.43
ATOM	826	CA	THR	377	-7.331	-2.590	5.832	1.00	0.44
ATOM	827	HA	THR	377	-7.907	-2.711	6.737	1.00	0.48
ATOM	828	CB	THR	377	-8.267	-2.236	4.673	1.00	0.46
ATOM	829	HB	THR	377	-7.690	-2.116	3.769	1.00	0.60
ATOM	830	OG1	THR	377	-8.948	-1.025	4.966	1.00	0.73
ATOM	831	HG1	THR	377	-8.501	-0.313	4.502	1.00	0.87
ATOM	832	CG2	THR	377	-9.282	-3.362	4.473	1.00	0.74
ATOM	833	HG21	THR	377	-9.052	-3.896	3.563	1.00	1.30
ATOM	834	HG22	THR	377	-10.275	-2.943	4.405	1.00	1.28
ATOM	835	HG23	THR	377	-9.234	-4.042	5.311	1.00	1.34
ATOM	836	C	THR	377	-6.603	-3.895	5.510	1.00	0.41
ATOM	837	O	THR	377	-7.045	-4.968	5.864	1.00	0.46
ATOM	838	N	TRP	378	-5.489	-3.809	4.840	1.00	0.36
ATOM	839	HN	TRP	378	-5.150	-2.932	4.564	1.00	0.35
ATOM	840	CA	TRP	378	-4.730	-5.041	4.495	1.00	0.36
ATOM	841	HA	TRP	378	-5.351	-5.689	3.895	1.00	0.39
ATOM	842	CB	TRP	378	-3.478	-4.657	3.704	1.00	0.34
ATOM	843	HB1	TRP	378	-2.856	-4.015	4.309	1.00	0.36
ATOM	844	HB2	TRP	378	-3.768	-4.134	2.805	1.00	0.34
ATOM	845	CG	TRP	378	-2.717	-5.890	3.337	1.00	0.36
ATOM	846	CD1	TRP	378	-2.033	-6.669	4.207	1.00	0.46
ATOM	847	HD1	TRP	378	-1.951	-6.501	5.271	1.00	0.54

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ATOM	848	CD2	TRP	378	-2.547	-6.497	2.023	1.00	0.33
ATOM	849	NE1	TRP	378	-1.455	-7.715	3.510	1.00	0.49
ATOM	850	HE1	TRP	378	-0.906	-8.423	3.907	1.00	0.57
ATOM	851	CE2	TRP	378	-1.743	-7.652	2.162	1.00	0.40
ATOM	852	CE3	TRP	378	-3.008	-6.160	0.738	1.00	0.31
ATOM	853	HE3	TRP	378	-3.624	-5.283	0.601	1.00	0.32
ATOM	854	CZ2	TRP	378	-1.408	-8.446	1.064	1.00	0.41
ATOM	855	HZ2	TRP	378	-0.793	-9.323	1.196	1.00	0.48
ATOM	856	CZ3	TRP	378	-2.673	-6.956	-0.369	1.00	0.35
ATOM	857	HZ3	TRP	378	-3.033	-6.688	-1.352	1.00	0.39
ATOM	858	CH2	TRP	378	-1.874	-8.097	-0.206	1.00	0.38
ATOM	859	HH2	TRP	378	-1.620	-8.705	-1.061	1.00	0.42
ATOM	860	C	TRP	378	-4.325	-5.766	5.781	1.00	0.42
ATOM	861	O	TRP	378	-4.720	-6.888	6.025	1.00	0.48
ATOM	862	N	ARG	379	-3.543	-5.132	6.611	1.00	0.45
ATOM	863	HN	ARG	379	-3.237	-4.225	6.400	1.00	0.43
ATOM	864	CA	ARG	379	-3.116	-5.786	7.881	1.00	0.56
ATOM	865	HA	ARG	379	-2.458	-6.612	7.657	1.00	0.60
ATOM	866	CB	ARG	379	-2.378	-4.769	8.753	1.00	0.61
ATOM	867	HB1	ARG	379	-3.033	-4.426	9.540	1.00	1.05
ATOM	868	HB2	ARG	379	-2.074	-3.928	8.146	1.00	0.93
ATOM	869	CG	ARG	379	-1.142	-5.425	9.372	1.00	1.20
ATOM	870	HG1	ARG	379	-0.455	-5.709	8.590	1.00	1.69
ATOM	871	HG2	ARG	379	-1.441	-6.303	9.927	1.00	1.72
ATOM	872	CD	ARG	379	-0.457	-4.433	10.314	1.00	1.28
ATOM	873	HD1	ARG	379	-0.446	-3.454	9.859	1.00	1.81
ATOM	874	HD2	ARG	379	0.556	-4.755	10.501	1.00	1.54
ATOM	875	NE	ARG	379	-1.206	-4.375	11.600	1.00	1.88
ATOM	876	HE	ARG	379	-1.853	-5.076	11.823	1.00	2.50
ATOM	877	CZ	ARG	379	-1.001	-3.389	12.430	1.00	2.25
ATOM	878	NH1	ARG	379	0.175	-2.829	12.501	1.00	2.62
ATOM	879	HH11	ARG	379	0.920	-3.156	11.920	1.00	2.83
ATOM	880	HH12	ARG	379	0.332	-2.074	13.137	1.00	3.07
ATOM	881	NH2	ARG	379	-1.974	-2.962	13.188	1.00	2.89
ATOM	882	HH21	ARG	379	-2.875	-3.390	13.133	1.00	3.20
ATOM	883	HH22	ARG	379	-1.817	-2.207	13.824	1.00	3.36
ATOM	884	C	ARG	379	-4.347	-6.302	8.633	1.00	0.62
ATOM	885	O	ARG	379	-4.262	-7.219	9.426	1.00	0.72
ATOM	886	N	ARG	380	-5.489	-5.718	8.393	1.00	0.59
ATOM	887	HN	ARG	380	-5.536	-4.976	7.751	1.00	0.52
ATOM	888	CA	ARG	380	-6.721	-6.174	9.097	1.00	0.69
ATOM	889	HA	ARG	380	-6.455	-6.560	10.070	1.00	0.77
ATOM	890	CB	ARG	380	-7.678	-4.993	9.264	1.00	0.76
ATOM	891	HB1	ARG	380	-8.600	-5.198	8.740	1.00	1.26
ATOM	892	HB2	ARG	380	-7.223	-4.101	8.857	1.00	0.91
ATOM	893	CG	ARG	380	-7.976	-4.784	10.750	1.00	1.59
ATOM	894	HG1	ARG	380	-7.119	-4.336	11.229	1.00	2.10
ATOM	895	HG2	ARG	380	-8.188	-5.738	11.211	1.00	2.23
ATOM	896	CD	ARG	380	-9.185	-3.860	10.906	1.00	2.04
ATOM	897	HD1	ARG	380	-9.722	-3.809	9.971	1.00	2.37
ATOM	898	HD2	ARG	380	-8.850	-2.872	11.183	1.00	2.55
ATOM	899	NE	ARG	380	-10.084	-4.396	11.967	1.00	2.53
ATOM	900	HE	ARG	380	-10.383	-5.328	11.931	1.00	2.83
ATOM	901	CZ	ARG	380	-10.473	-3.623	12.943	1.00	3.11
ATOM	902	NH1	ARG	380	-10.311	-4.004	14.181	1.00	3.54
ATOM	903	HH11	ARG	380	-9.888	-4.887	14.381	1.00	3.57
ATOM	904	HH12	ARG	380	-10.609	-3.411	14.929	1.00	4.10
ATOM	905	NH2	ARG	380	-11.026	-2.470	12.682	1.00	3.72
ATOM	906	HH21	ARG	380	-11.152	-2.179	11.734	1.00	3.88
ATOM	907	HH22	ARG	380	-11.324	-1.878	13.431	1.00	4.28
ATOM	908	C	ARG	380	-7.410	-7.275	8.283	1.00	0.67
ATOM	909	O	ARG	380	-7.454	-8.421	8.685	1.00	0.75
ATOM	910	N	ARG	381	-7.955	-6.934	7.147	1.00	0.70
ATOM	911	HN	ARG	381	-7.914	-6.003	6.846	1.00	0.75
ATOM	912	CA	ARG	381	-8.652	-7.957	6.314	1.00	0.80
ATOM	913	HA	ARG	381	-9.469	-8.380	6.879	1.00	0.86
ATOM	914	CB	ARG	381	-9.203	-7.295	5.049	1.00	0.94
ATOM	915	HB1	ARG	381	-8.389	-7.058	4.380	1.00	1.35
ATOM	916	HB2	ARG	381	-9.725	-6.387	5.316	1.00	1.19
ATOM	917	CG	ARG	381	-10.169	-8.253	4.351	1.00	1.64
ATOM	918	HG1	ARG	381	-10.890	-8.621	5.066	1.00	2.21
ATOM	919	HG2	ARG	381	-9.616	-9.084	3.937	1.00	2.31
ATOM	920	CD	ARG	381	-10.900	-7.515	3.229	1.00	1.84
ATOM	921	HD1	ARG	381	-11.038	-8.180	2.390	1.00	2.15
ATOM	922	HD2	ARG	381	-10.314	-6.662	2.919	1.00	1.90
ATOM	923	NE	ARG	381	-12.229	-7.052	3.720	1.00	2.80
ATOM	924	HE	ARG	381	-12.322	-6.160	4.113	1.00	3.22

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ATOM	925	CZ	ARG	381	-13.268	-7.836	3.627	1.00	3.46
ATOM	926	NH1	ARG	381	-13.493	-8.493	2.522	1.00	4.06
ATOM	927	HH11	ARG	381	-12.869	-8.396	1.747	1.00	4.12
ATOM	928	HH12	ARG	381	-14.290	-9.093	2.451	1.00	4.71
ATOM	929	NH2	ARG	381	-14.082	-7.962	4.639	1.00	3.98
ATOM	930	HH21	ARG	381	-13.910	-7.457	5.486	1.00	4.01
ATOM	931	HH22	ARG	381	-14.879	-8.562	4.569	1.00	4.63
ATOM	932	C	ARG	381	-7.676	-9.072	5.925	1.00	0.78
ATOM	933	O	ARG	381	-7.778	-10.186	6.397	1.00	0.88
ATOM	934	N	THR	382	-6.734	-8.787	5.063	1.00	0.78
ATOM	935	HN	THR	382	-6.668	-7.884	4.690	1.00	0.79
ATOM	936	CA	THR	382	-5.761	-9.841	4.646	1.00	0.86
ATOM	937	HA	THR	382	-6.276	-10.587	4.062	1.00	0.93
ATOM	938	CB	THR	382	-4.652	-9.210	3.794	1.00	1.00
ATOM	939	HB	THR	382	-3.689	-9.477	4.202	1.00	1.30
ATOM	940	OG1	THR	382	-4.792	-7.796	3.799	1.00	1.82
ATOM	941	HG1	THR	382	-5.486	-7.562	3.177	1.00	2.07
ATOM	942	CG2	THR	382	-4.751	-9.726	2.358	1.00	0.85
ATOM	943	HG21	THR	382	-3.761	-9.943	1.984	1.00	1.28
ATOM	944	HG22	THR	382	-5.214	-8.973	1.736	1.00	1.45
ATOM	945	HG23	THR	382	-5.348	-10.625	2.339	1.00	1.45
ATOM	946	C	THR	382	-5.143	-10.491	5.895	1.00	0.93
ATOM	947	O	THR	382	-4.539	-9.813	6.701	1.00	1.11
ATOM	948	N	PRO	383	-5.318	-11.788	6.025	1.00	1.10
ATOM	949	CA	PRO	383	-4.768	-12.507	7.202	1.00	1.23
ATOM	950	HA	PRO	383	-5.068	-12.024	8.117	1.00	1.37
ATOM	951	CB	PRO	383	-5.404	-13.892	7.109	1.00	1.57
ATOM	952	HB1	PRO	383	-6.305	-13.933	7.702	1.00	1.79
ATOM	953	HB2	PRO	383	-4.703	-14.649	7.433	1.00	1.68
ATOM	954	CG	PRO	383	-5.735	-14.068	5.663	1.00	1.80
ATOM	955	HG1	PRO	383	-6.607	-14.695	5.557	1.00	2.21
ATOM	956	HG2	PRO	383	-4.894	-14.508	5.145	1.00	1.98
ATOM	957	CD	PRO	383	-6.026	-12.697	5.111	1.00	1.47
ATOM	958	HD2	PRO	383	-5.638	-12.605	4.105	1.00	1.54
ATOM	959	HD1	PRO	383	-7.085	-12.494	5.132	1.00	1.64
ATOM	960	C	PRO	383	-3.243	-12.599	7.112	1.00	1.42
ATOM	961	O	PRO	383	-2.700	-13.420	6.400	1.00	1.88
ATOM	962	N	ARG	384	-2.549	-11.761	7.831	1.00	1.85
ATOM	963	HN	ARG	384	-3.008	-11.107	8.399	1.00	2.26
ATOM	964	CA	ARG	384	-1.061	-11.797	7.792	1.00	2.30
ATOM	965	HA	ARG	384	-0.732	-12.770	7.458	1.00	2.77
ATOM	966	CB	ARG	384	-0.550	-10.725	6.827	1.00	3.43
ATOM	967	HB1	ARG	384	0.519	-10.620	6.938	1.00	3.74
ATOM	968	HB2	ARG	384	-1.030	-9.783	7.049	1.00	3.69
ATOM	969	CG	ARG	384	-0.871	-11.137	5.388	1.00	4.37
ATOM	970	HG1	ARG	384	-0.986	-10.253	4.778	1.00	4.65
ATOM	971	HG2	ARG	384	-1.789	-11.707	5.373	1.00	4.55
ATOM	972	CD	ARG	384	0.271	-11.990	4.833	1.00	5.29
ATOM	973	HD1	ARG	384	1.111	-11.949	5.509	1.00	5.62
ATOM	974	HD2	ARG	384	0.567	-11.610	3.867	1.00	5.43
ATOM	975	NE	ARG	384	-0.185	-13.402	4.692	1.00	6.06
ATOM	976	HE	ARG	384	-0.989	-13.609	4.170	1.00	6.11
ATOM	977	CZ	ARG	384	0.487	-14.364	5.264	1.00	6.93
ATOM	978	NH1	ARG	384	1.790	-14.311	5.312	1.00	7.58
ATOM	979	HH11	ARG	384	2.274	-13.533	4.910	1.00	7.49
ATOM	980	HH12	ARG	384	2.305	-15.048	5.751	1.00	8.31
ATOM	981	NH2	ARG	384	-0.144	-15.379	5.788	1.00	7.38
ATOM	982	HH21	ARG	384	-1.143	-15.420	5.752	1.00	7.11
ATOM	983	HH22	ARG	384	0.371	-16.116	6.227	1.00	8.15
ATOM	984	C	ARG	384	-0.514	-11.526	9.195	1.00	1.73
ATOM	985	O	ARG	384	-1.260	-11.365	10.140	1.00	2.21
ATOM	986	N	ARG	385	0.781	-11.476	9.342	1.00	1.68
ATOM	987	HN	ARG	385	1.369	-11.610	8.569	1.00	2.10
ATOM	988	CA	ARG	385	1.365	-11.218	10.688	1.00	2.09
ATOM	989	HA	ARG	385	0.571	-11.017	11.391	1.00	2.63
ATOM	990	CB	ARG	385	2.152	-12.447	11.146	1.00	3.06
ATOM	991	HB1	ARG	385	2.872	-12.155	11.896	1.00	3.55
ATOM	992	HB2	ARG	385	2.666	-12.881	10.301	1.00	3.42
ATOM	993	CG	ARG	385	1.189	-13.476	11.741	1.00	3.71
ATOM	994	HG1	ARG	385	0.884	-14.170	10.972	1.00	3.74
ATOM	995	HG2	ARG	385	0.320	-12.969	12.136	1.00	3.90
ATOM	996	CD	ARG	385	1.889	-14.242	12.866	1.00	4.81
ATOM	997	HD1	ARG	385	1.547	-13.871	13.821	1.00	5.22
ATOM	998	HD2	ARG	385	2.956	-14.101	12.787	1.00	5.16
ATOM	999	NE	ARG	385	1.568	-15.693	12.752	1.00	5.34
ATOM	1000	HE	ARG	385	0.752	-16.047	13.163	1.00	5.22
ATOM	1001	CZ	ARG	385	2.374	-16.491	12.107	1.00	6.28

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ATOM	1002	NH1	ARG	385	2.062	-16.904	10.909	1.00	6.85
ATOM	1003	HH11	ARG	385	1.205	-16.609	10.485	1.00	6.65
ATOM	1004	HH12	ARG	385	2.679	-17.516	10.414	1.00	7.64
ATOM	1005	NH2	ARG	385	3.491	-16.877	12.661	1.00	6.90
ATOM	1006	HH21	ARG	385	3.728	-16.561	13.579	1.00	6.75
ATOM	1007	HH22	ARG	385	4.110	-17.487	12.167	1.00	7.68
ATOM	1008	C	ARG	385	2.301	-10.010	10.619	1.00	1.75
ATOM	1009	O	ARG	385	1.934	-8.907	10.970	1.00	2.29
ATOM	1010	N	GLU	386	3.509	-10.211	10.170	1.00	1.72
ATOM	1011	HN	GLU	386	3.785	-11.109	9.893	1.00	2.03
ATOM	1012	CA	GLU	386	4.469	-9.075	10.081	1.00	2.15
ATOM	1013	HA	GLU	386	3.947	-8.147	10.260	1.00	2.64
ATOM	1014	CB	GLU	386	5.568	-9.254	11.130	1.00	3.20
ATOM	1015	HB1	GLU	386	6.296	-8.464	11.027	1.00	3.64
ATOM	1016	HB2	GLU	386	6.049	-10.210	10.987	1.00	3.43
ATOM	1017	CG	GLU	386	4.952	-9.196	12.530	1.00	4.00
ATOM	1018	HG1	GLU	386	3.878	-9.130	12.447	1.00	4.00
ATOM	1019	HG2	GLU	386	5.328	-8.329	13.052	1.00	4.22
ATOM	1020	CD	GLU	386	5.324	-10.461	13.306	1.00	5.05
ATOM	1021	OE1	GLU	386	5.062	-11.541	12.802	1.00	5.61
ATOM	1022	OE2	GLU	386	5.863	-10.328	14.393	1.00	5.55
ATOM	1023	C	GLU	386	5.094	-9.049	8.685	1.00	1.56
ATOM	1024	O	GLU	386	6.196	-8.571	8.497	1.00	2.12
ATOM	1025	N	ALA	387	4.400	-9.560	7.706	1.00	1.11
ATOM	1026	HN	ALA	387	3.514	-9.941	7.880	1.00	1.61
ATOM	1027	CA	ALA	387	4.956	-9.567	6.324	1.00	0.92
ATOM	1028	HA	ALA	387	5.998	-9.284	6.355	1.00	1.12
ATOM	1029	CB	ALA	387	4.827	-10.971	5.731	1.00	1.44
ATOM	1030	HB1	ALA	387	3.867	-11.069	5.245	1.00	1.84
ATOM	1031	HB2	ALA	387	4.908	-11.704	6.519	1.00	2.02
ATOM	1032	HB3	ALA	387	5.614	-11.130	5.009	1.00	1.84
ATOM	1033	C	ALA	387	4.183	-8.572	5.455	1.00	0.77
ATOM	1034	O	ALA	387	4.175	-8.669	4.244	1.00	0.70
ATOM	1035	N	THR	388	3.534	-7.613	6.060	1.00	0.76
ATOM	1036	HN	THR	388	3.552	-7.549	7.038	1.00	0.83
ATOM	1037	CA	THR	388	2.767	-6.616	5.262	1.00	0.68
ATOM	1038	HA	THR	388	1.959	-7.112	4.744	1.00	0.72
ATOM	1039	CB	THR	388	2.195	-5.546	6.196	1.00	0.78
ATOM	1040	HB	THR	388	2.773	-4.639	6.104	1.00	1.34
ATOM	1041	OG1	THR	388	2.253	-6.012	7.537	1.00	1.54
ATOM	1042	HG1	THR	388	1.699	-5.440	8.074	1.00	1.90
ATOM	1043	CG2	THR	388	0.742	-5.257	5.815	1.00	1.16
ATOM	1044	HG21	THR	388	0.491	-4.244	6.093	1.00	1.67
ATOM	1045	HG22	THR	388	0.090	-5.945	6.335	1.00	1.72
ATOM	1046	HG23	THR	388	0.618	-5.380	4.750	1.00	1.78
ATOM	1047	C	THR	388	3.700	-5.960	4.242	1.00	0.54
ATOM	1048	O	THR	388	3.564	-6.148	3.049	1.00	0.50
ATOM	1049	N	LEU	389	4.653	-5.195	4.702	1.00	0.52
ATOM	1050	HN	LEU	389	4.749	-5.059	5.668	1.00	0.59
ATOM	1051	CA	LEU	389	5.600	-4.531	3.760	1.00	0.46
ATOM	1052	HA	LEU	389	5.064	-3.810	3.156	1.00	0.44
ATOM	1053	CB	LEU	389	6.692	-3.818	4.558	1.00	0.52
ATOM	1054	HB1	LEU	389	7.238	-4.541	5.145	1.00	0.87
ATOM	1055	HB2	LEU	389	6.240	-3.090	5.214	1.00	0.98
ATOM	1056	CG	LEU	389	7.654	-3.116	3.597	1.00	0.62
ATOM	1057	HG	LEU	389	7.889	-3.779	2.776	1.00	1.22
ATOM	1058	CD1	LEU	389	7.001	-1.844	3.053	1.00	1.13
ATOM	1059	HD11	LEU	389	7.690	-1.018	3.146	1.00	1.65
ATOM	1060	HD12	LEU	389	6.105	-1.630	3.616	1.00	1.62
ATOM	1061	HD13	LEU	389	6.747	-1.986	2.013	1.00	1.72
ATOM	1062	CD2	LEU	389	8.938	-2.749	4.343	1.00	1.15
ATOM	1063	HD21	LEU	389	8.712	-2.577	5.385	1.00	1.68
ATOM	1064	HD22	LEU	389	9.360	-1.853	3.913	1.00	1.74
ATOM	1065	HD23	LEU	389	9.648	-3.558	4.257	1.00	1.62
ATOM	1066	C	LEU	389	6.240	-5.587	2.855	1.00	0.45
ATOM	1067	O	LEU	389	6.573	-5.323	1.718	1.00	0.43
ATOM	1068	N	GLU	390	6.412	-6.783	3.353	1.00	0.50
ATOM	1069	HN	GLU	390	6.134	-6.975	4.273	1.00	0.54
ATOM	1070	CA	GLU	390	7.027	-7.858	2.522	1.00	0.53
ATOM	1071	HA	GLU	390	8.054	-7.602	2.303	1.00	0.56
ATOM	1072	CB	GLU	390	6.983	-9.183	3.288	1.00	0.63
ATOM	1073	HB1	GLU	390	6.023	-9.653	3.139	1.00	0.99
ATOM	1074	HB2	GLU	390	7.133	-8.995	4.341	1.00	1.10
ATOM	1075	CG	GLU	390	8.086	-10.111	2.772	1.00	1.11
ATOM	1076	HG1	GLU	390	8.922	-9.521	2.430	1.00	1.76
ATOM	1077	HG2	GLU	390	7.704	-10.705	1.955	1.00	1.71
ATOM	1078	CD	GLU	390	8.547	-11.034	3.902	1.00	1.45

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ATOM	1079	OE1	GLU	390	8.935	-12.152	3.606	1.00	1.95
ATOM	1080	OE2	GLU	390	8.505	-10.607	5.044	1.00	2.14
ATOM	1081	C	GLU	390	6.245	-7.994	1.215	1.00	0.46
ATOM	1082	O	GLU	390	6.763	-7.757	0.142	1.00	0.46
ATOM	1083	N	LEU	391	4.995	-8.361	1.297	1.00	0.44
ATOM	1084	HN	LEU	391	4.591	-8.539	2.172	1.00	0.48
ATOM	1085	CA	LEU	391	4.181	-8.495	0.058	1.00	0.41
ATOM	1086	HA	LEU	391	4.603	-9.265	-0.572	1.00	0.43
ATOM	1087	CB	LEU	391	2.743	-8.865	0.428	1.00	0.45
ATOM	1088	HB1	LEU	391	2.265	-8.022	0.903	1.00	0.49
ATOM	1089	HB2	LEU	391	2.751	-9.705	1.108	1.00	0.47
ATOM	1090	CG	LEU	391	1.972	-9.239	-0.838	1.00	0.47
ATOM	1091	HG	LEU	391	2.668	-9.552	-1.602	1.00	0.76
ATOM	1092	CD1	LEU	391	1.005	-10.383	-0.531	1.00	1.11
ATOM	1093	HD11	LEU	391	0.001	-9.994	-0.452	1.00	1.62
ATOM	1094	HD12	LEU	391	1.284	-10.851	0.402	1.00	1.81
ATOM	1095	HD13	LEU	391	1.047	-11.113	-1.326	1.00	1.44
ATOM	1096	CD2	LEU	391	1.185	-8.023	-1.328	1.00	0.85
ATOM	1097	HD21	LEU	391	0.518	-7.688	-0.547	1.00	1.46
ATOM	1098	HD22	LEU	391	0.610	-8.295	-2.199	1.00	1.50
ATOM	1099	HD23	LEU	391	1.870	-7.228	-1.582	1.00	1.36
ATOM	1100	C	LEU	391	4.194	-7.159	-0.686	1.00	0.35
ATOM	1101	O	LEU	391	4.257	-7.110	-1.898	1.00	0.34
ATOM	1102	N	LEU	392	4.149	-6.073	0.038	1.00	0.33
ATOM	1103	HN	LEU	392	4.109	-6.138	1.015	1.00	0.36
ATOM	1104	CA	LEU	392	4.175	-4.736	-0.617	1.00	0.30
ATOM	1105	HA	LEU	392	3.376	-4.667	-1.341	1.00	0.30
ATOM	1106	CB	LEU	392	4.007	-3.646	0.445	1.00	0.31
ATOM	1107	HB1	LEU	392	4.383	-2.709	0.066	1.00	0.30
ATOM	1108	HB2	LEU	392	4.562	-3.923	1.326	1.00	0.35
ATOM	1109	CG	LEU	392	2.527	-3.490	0.807	1.00	0.33
ATOM	1110	HG	LEU	392	1.967	-4.321	0.404	1.00	0.41
ATOM	1111	CD1	LEU	392	2.380	-3.464	2.329	1.00	0.45
ATOM	1112	HD11	LEU	392	3.283	-3.068	2.770	1.00	1.16
ATOM	1113	HD12	LEU	392	2.211	-4.467	2.691	1.00	1.11
ATOM	1114	HD13	LEU	392	1.543	-2.837	2.599	1.00	1.10
ATOM	1115	CD2	LEU	392	1.990	-2.177	0.227	1.00	0.28
ATOM	1116	HD21	LEU	392	0.990	-2.003	0.596	1.00	1.06
ATOM	1117	HD22	LEU	392	1.970	-2.239	-0.851	1.00	1.01
ATOM	1118	HD23	LEU	392	2.631	-1.361	0.528	1.00	1.01
ATOM	1119	C	LEU	392	5.524	-4.555	-1.317	1.00	0.29
ATOM	1120	O	LEU	392	5.638	-3.856	-2.304	1.00	0.30
ATOM	1121	N	GLY	393	6.550	-5.182	-0.805	1.00	0.31
ATOM	1122	HN	GLY	393	6.433	-5.738	-0.007	1.00	0.32
ATOM	1123	CA	GLY	393	7.898	-5.053	-1.428	1.00	0.33
ATOM	1124	HA1	GLY	393	8.629	-5.549	-0.808	1.00	0.37
ATOM	1125	HA2	GLY	393	8.154	-4.007	-1.519	1.00	0.33
ATOM	1126	C	GLY	393	7.891	-5.700	-2.813	1.00	0.34
ATOM	1127	O	GLY	393	8.163	-5.059	-3.808	1.00	0.34
ATOM	1128	N	ARG	394	7.579	-6.965	-2.892	1.00	0.36
ATOM	1129	HN	ARG	394	7.359	-7.469	-2.080	1.00	0.37
ATOM	1130	CA	ARG	394	7.553	-7.641	-4.222	1.00	0.39
ATOM	1131	HA	ARG	394	8.555	-7.683	-4.625	1.00	0.42
ATOM	1132	CB	ARG	394	7.003	-9.060	-4.066	1.00	0.42
ATOM	1133	HB1	ARG	394	6.227	-9.228	-4.798	1.00	0.92
ATOM	1134	HB2	ARG	394	6.594	-9.179	-3.073	1.00	1.01
ATOM	1135	CG	ARG	394	8.130	-10.072	-4.280	1.00	1.21
ATOM	1136	HG1	ARG	394	8.683	-10.194	-3.361	1.00	1.76
ATOM	1137	HG2	ARG	394	8.793	-9.714	-5.054	1.00	1.89
ATOM	1138	CD	ARG	394	7.535	-11.418	-4.697	1.00	1.42
ATOM	1139	HD1	ARG	394	8.232	-11.935	-5.341	1.00	1.92
ATOM	1140	HD2	ARG	394	6.609	-11.254	-5.227	1.00	1.64
ATOM	1141	NE	ARG	394	7.274	-12.243	-3.484	1.00	2.11
ATOM	1142	HE	ARG	394	7.059	-11.808	-2.632	1.00	2.52
ATOM	1143	CZ	ARG	394	7.331	-13.544	-3.555	1.00	2.76
ATOM	1144	NH1	ARG	394	7.764	-14.235	-2.536	1.00	3.24
ATOM	1145	HH11	ARG	394	8.051	-13.768	-1.700	1.00	3.28
ATOM	1146	HH12	ARG	394	7.808	-15.233	-2.591	1.00	3.88
ATOM	1147	NH2	ARG	394	6.956	-14.155	-4.646	1.00	3.46
ATOM	1148	HH21	ARG	394	6.624	-13.625	-5.426	1.00	3.60
ATOM	1149	HH22	ARG	394	7.000	-15.152	-4.701	1.00	4.12
ATOM	1150	C	ARG	394	6.654	-6.846	-5.170	1.00	0.36
ATOM	1151	O	ARG	394	6.957	-6.667	-6.334	1.00	0.38
ATOM	1152	N	VAL	395	5.553	-6.358	-4.671	1.00	0.33
ATOM	1153	HN	VAL	395	5.335	-6.508	-3.728	1.00	0.32
ATOM	1154	CA	VAL	395	4.634	-5.564	-5.528	1.00	0.33
ATOM	1155	HA	VAL	395	4.353	-6.145	-6.394	1.00	0.37

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ATOM	1156	CB	VAL	395	3.384	-5.204	-4.725	1.00	0.32
ATOM	1157	HB	VAL	395	3.666	-4.607	-3.870	1.00	0.29
ATOM	1158	CG1	VAL	395	2.417	-4.411	-5.606	1.00	0.36
ATOM	1159	HG11	VAL	395	2.979	-3.803	-6.300	1.00	0.97
ATOM	1160	HG12	VAL	395	1.803	-3.775	-4.985	1.00	1.08
ATOM	1161	HG13	VAL	395	1.787	-5.095	-6.155	1.00	1.17
ATOM	1162	CG2	VAL	395	2.704	-6.489	-4.247	1.00	0.35
ATOM	1163	HG21	VAL	395	2.051	-6.861	-5.023	1.00	1.13
ATOM	1164	HG22	VAL	395	2.126	-6.281	-3.359	1.00	1.00
ATOM	1165	HG23	VAL	395	3.455	-7.231	-4.022	1.00	1.08
ATOM	1166	C	VAL	395	5.349	-4.289	-5.976	1.00	0.31
ATOM	1167	O	VAL	395	5.053	-3.728	-7.012	1.00	0.34
ATOM	1168	N	LEU	396	6.299	-3.833	-5.204	1.00	0.28
ATOM	1169	HN	LEU	396	6.526	-4.307	-4.376	1.00	0.27
ATOM	1170	CA	LEU	396	7.046	-2.602	-5.584	1.00	0.28
ATOM	1171	HA	LEU	396	6.355	-1.851	-5.937	1.00	0.29
ATOM	1172	CB	LEU	396	7.812	-2.069	-4.371	1.00	0.26
ATOM	1173	HB1	LEU	396	8.578	-1.385	-4.702	1.00	0.27
ATOM	1174	HB2	LEU	396	8.271	-2.892	-3.845	1.00	0.28
ATOM	1175	CG	LEU	396	6.852	-1.339	-3.431	1.00	0.25
ATOM	1176	HG	LEU	396	5.961	-1.934	-3.293	1.00	0.27
ATOM	1177	CD1	LEU	396	7.533	-1.116	-2.081	1.00	0.27
ATOM	1178	HD11	LEU	396	7.377	-0.096	-1.763	1.00	0.89
ATOM	1179	HD12	LEU	396	8.592	-1.305	-2.177	1.00	1.01
ATOM	1180	HD13	LEU	396	7.112	-1.790	-1.350	1.00	0.97
ATOM	1181	CD2	LEU	396	6.477	0.014	-4.036	1.00	0.27
ATOM	1182	HD21	LEU	396	7.257	0.731	-3.826	1.00	0.97
ATOM	1183	HD22	LEU	396	5.549	0.355	-3.603	1.00	1.11
ATOM	1184	HD23	LEU	396	6.361	-0.089	-5.103	1.00	0.99
ATOM	1185	C	LEU	396	8.042	-2.946	-6.692	1.00	0.32
ATOM	1186	O	LEU	396	8.150	-2.253	-7.684	1.00	0.34
ATOM	1187	N	ARG	397	8.772	-4.017	-6.526	1.00	0.34
ATOM	1188	HN	ARG	397	8.666	-4.557	-5.715	1.00	0.34
ATOM	1189	CA	ARG	397	9.768	-4.420	-7.561	1.00	0.40
ATOM	1190	HA	ARG	397	10.582	-3.710	-7.573	1.00	0.41
ATOM	1191	CB	ARG	397	10.311	-5.811	-7.228	1.00	0.46
ATOM	1192	HB1	ARG	397	10.691	-6.274	-8.127	1.00	0.88
ATOM	1193	HB2	ARG	397	9.517	-6.418	-6.818	1.00	0.90
ATOM	1194	CG	ARG	397	11.440	-5.687	-6.204	1.00	1.21
ATOM	1195	HG1	ARG	397	11.190	-4.923	-5.483	1.00	1.73
ATOM	1196	HG2	ARG	397	12.357	-5.419	-6.709	1.00	1.81
ATOM	1197	CD	ARG	397	11.626	-7.024	-5.483	1.00	1.32
ATOM	1198	HD1	ARG	397	10.791	-7.672	-5.705	1.00	1.65
ATOM	1199	HD2	ARG	397	11.676	-6.854	-4.418	1.00	1.83
ATOM	1200	NE	ARG	397	12.889	-7.666	-5.943	1.00	1.97
ATOM	1201	HE	ARG	397	13.550	-7.144	-6.443	1.00	2.54
ATOM	1202	CZ	ARG	397	13.114	-8.924	-5.679	1.00	2.26
ATOM	1203	NH1	ARG	397	12.165	-9.805	-5.842	1.00	2.65
ATOM	1204	HH11	ARG	397	11.265	-9.516	-6.168	1.00	3.00
ATOM	1205	HH12	ARG	397	12.338	-10.769	-5.640	1.00	2.88
ATOM	1206	NH2	ARG	397	14.289	-9.301	-5.253	1.00	2.68
ATOM	1207	HH21	ARG	397	15.016	-8.626	-5.129	1.00	3.03
ATOM	1208	HH22	ARG	397	14.461	-10.265	-5.051	1.00	2.94
ATOM	1209	C	ARG	397	9.100	-4.450	-8.938	1.00	0.43
ATOM	1210	O	ARG	397	9.626	-3.935	-9.904	1.00	0.46
ATOM	1211	N	ASP	398	7.941	-5.046	-9.035	1.00	0.45
ATOM	1212	HN	ASP	398	7.530	-5.454	-8.242	1.00	0.44
ATOM	1213	CA	ASP	398	7.242	-5.101	-10.351	1.00	0.51
ATOM	1214	HA	ASP	398	7.815	-5.706	-11.039	1.00	0.57
ATOM	1215	CB	ASP	398	5.853	-5.715	-10.165	1.00	0.56
ATOM	1216	HB1	ASP	398	5.241	-5.488	-11.026	1.00	1.02
ATOM	1217	HB2	ASP	398	5.394	-5.303	-9.278	1.00	0.99
ATOM	1218	CG	ASP	398	5.978	-7.233	-10.018	1.00	1.21
ATOM	1219	OD1	ASP	398	5.076	-7.829	-9.454	1.00	1.79
ATOM	1220	OD2	ASP	398	6.974	-7.772	-10.472	1.00	2.00
ATOM	1221	C	ASP	398	7.103	-3.683	-10.912	1.00	0.49
ATOM	1222	O	ASP	398	7.243	-3.455	-12.097	1.00	0.54
ATOM	1223	N	MET	399	6.833	-2.728	-10.064	1.00	0.45
ATOM	1224	HN	MET	399	6.728	-2.936	-9.112	1.00	0.43
ATOM	1225	CA	MET	399	6.687	-1.322	-10.538	1.00	0.48
ATOM	1226	HA	MET	399	6.314	-1.319	-11.550	1.00	0.55
ATOM	1227	CB	MET	399	5.700	-0.586	-9.636	1.00	0.51
ATOM	1228	HB1	MET	399	5.519	0.401	-10.031	1.00	0.86
ATOM	1229	HB2	MET	399	6.113	-0.507	-8.640	1.00	1.11
ATOM	1230	CG	MET	399	4.385	-1.363	-9.585	1.00	1.30
ATOM	1231	HG1	MET	399	4.593	-2.415	-9.458	1.00	2.02
ATOM	1232	HG2	MET	399	3.841	-1.212	-10.505	1.00	1.97

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ATOM	1233	SD	MET	399	3.394	-0.773	-8.193	1.00	1.54
ATOM	1234	CE	MET	399	3.224	0.938	-8.751	1.00	0.65
ATOM	1235	HE1	MET	399	3.734	1.060	-9.696	1.00	1.39
ATOM	1236	HE2	MET	399	3.660	1.600	-8.021	1.00	1.20
ATOM	1237	HE3	MET	399	2.176	1.174	-8.868	1.00	1.17
ATOM	1238	C	MET	399	8.045	-0.613	-10.489	1.00	0.43
ATOM	1239	O	MET	399	8.121	0.598	-10.545	1.00	0.46
ATOM	1240	N	ASP	400	9.118	-1.351	-10.384	1.00	0.40
ATOM	1241	HN	ASP	400	9.042	-2.326	-10.339	1.00	0.41
ATOM	1242	CA	ASP	400	10.459	-0.705	-10.330	1.00	0.40
ATOM	1243	HA	ASP	400	11.219	-1.463	-10.206	1.00	0.41
ATOM	1244	CB	ASP	400	10.710	0.061	-11.630	1.00	0.47
ATOM	1245	HB1	ASP	400	11.672	0.548	-11.581	1.00	0.73
ATOM	1246	HB2	ASP	400	9.937	0.804	-11.764	1.00	0.88
ATOM	1247	CG	ASP	400	10.693	-0.912	-12.810	1.00	0.97
ATOM	1248	OD1	ASP	400	11.672	-0.948	-13.537	1.00	1.34
ATOM	1249	OD2	ASP	400	9.701	-1.604	-12.966	1.00	1.85
ATOM	1250	C	ASP	400	10.510	0.267	-9.149	1.00	0.36
ATOM	1251	O	ASP	400	11.188	1.274	-9.193	1.00	0.37
ATOM	1252	N	LEU	401	9.800	-0.024	-8.094	1.00	0.34
ATOM	1253	HN	LEU	401	9.258	-0.841	-8.075	1.00	0.35
ATOM	1254	CA	LEU	401	9.813	0.890	-6.917	1.00	0.33
ATOM	1255	HA	LEU	401	10.077	1.886	-7.240	1.00	0.36
ATOM	1256	CB	LEU	401	8.428	0.917	-6.271	1.00	0.33
ATOM	1257	HB1	LEU	401	8.523	1.189	-5.230	1.00	0.36
ATOM	1258	HB2	LEU	401	7.975	-0.059	-6.348	1.00	0.36
ATOM	1259	CG	LEU	401	7.556	1.946	-6.985	1.00	0.47
ATOM	1260	HG	LEU	401	7.856	2.015	-8.021	1.00	0.91
ATOM	1261	CD1	LEU	401	6.091	1.517	-6.906	1.00	0.70
ATOM	1262	HD11	LEU	401	5.548	1.935	-7.740	1.00	1.17
ATOM	1263	HD12	LEU	401	5.661	1.873	-5.981	1.00	1.23
ATOM	1264	HD13	LEU	401	6.029	0.439	-6.940	1.00	1.25
ATOM	1265	CD2	LEU	401	7.726	3.307	-6.309	1.00	0.82
ATOM	1266	HD21	LEU	401	7.166	4.053	-6.854	1.00	1.42
ATOM	1267	HD22	LEU	401	8.772	3.576	-6.301	1.00	1.46
ATOM	1268	HD23	LEU	401	7.361	3.253	-5.294	1.00	1.31
ATOM	1269	C	LEU	401	10.837	0.400	-5.894	1.00	0.33
ATOM	1270	O	LEU	401	10.785	0.757	-4.733	1.00	0.31
ATOM	1271	N	LEU	402	11.773	-0.411	-6.308	1.00	0.39
ATOM	1272	HN	LEU	402	11.804	-0.688	-7.248	1.00	0.42
ATOM	1273	CA	LEU	402	12.796	-0.912	-5.349	1.00	0.45
ATOM	1274	HA	LEU	402	12.320	-1.532	-4.602	1.00	0.44
ATOM	1275	CB	LEU	402	13.846	-1.730	-6.101	1.00	0.55
ATOM	1276	HB1	LEU	402	14.518	-1.064	-6.621	1.00	0.93
ATOM	1277	HB2	LEU	402	13.354	-2.377	-6.814	1.00	1.19
ATOM	1278	CG	LEU	402	14.639	-2.576	-5.106	1.00	1.14
ATOM	1279	HG	LEU	402	14.834	-1.995	-4.216	1.00	1.96
ATOM	1280	CD1	LEU	402	13.828	-3.819	-4.736	1.00	1.69
ATOM	1281	HD11	LEU	402	14.473	-4.685	-4.746	1.00	2.17
ATOM	1282	HD12	LEU	402	13.031	-3.955	-5.452	1.00	2.06
ATOM	1283	HD13	LEU	402	13.408	-3.694	-3.749	1.00	2.23
ATOM	1284	CD2	LEU	402	15.963	-3.001	-5.743	1.00	1.59
ATOM	1285	HD21	LEU	402	15.922	-2.826	-6.808	1.00	2.21
ATOM	1286	HD22	LEU	402	16.131	-4.052	-5.557	1.00	1.82
ATOM	1287	HD23	LEU	402	16.770	-2.426	-5.315	1.00	2.16
ATOM	1288	C	LEU	402	13.468	0.280	-4.666	1.00	0.45
ATOM	1289	O	LEU	402	13.894	0.201	-3.531	1.00	0.47
ATOM	1290	N	GLY	403	13.550	1.392	-5.346	1.00	0.46
ATOM	1291	HN	GLY	403	13.187	1.439	-6.256	1.00	0.46
ATOM	1292	CA	GLY	403	14.176	2.594	-4.729	1.00	0.50
ATOM	1293	HA1	GLY	403	14.315	3.357	-5.479	1.00	0.55
ATOM	1294	HA2	GLY	403	15.131	2.325	-4.299	1.00	0.56
ATOM	1295	C	GLY	403	13.245	3.117	-3.638	1.00	0.43
ATOM	1296	O	GLY	403	13.673	3.703	-2.664	1.00	0.46
ATOM	1297	N	CYS	404	11.969	2.896	-3.797	1.00	0.37
ATOM	1298	HN	CYS	404	11.651	2.415	-4.589	1.00	0.37
ATOM	1299	CA	CYS	404	10.995	3.363	-2.775	1.00	0.33
ATOM	1300	HA	CYS	404	11.229	4.377	-2.488	1.00	0.38
ATOM	1301	CB	CYS	404	9.584	3.310	-3.361	1.00	0.33
ATOM	1302	HB1	CYS	404	8.876	3.083	-2.578	1.00	0.64
ATOM	1303	HB2	CYS	404	9.538	2.543	-4.121	1.00	0.55
ATOM	1304	SG	CYS	404	9.180	4.914	-4.097	1.00	0.80
ATOM	1305	HG	CYS	404	8.241	5.070	-3.972	1.00	1.29
ATOM	1306	C	CYS	404	11.081	2.456	-1.550	1.00	0.28
ATOM	1307	O	CYS	404	10.943	2.900	-0.427	1.00	0.27
ATOM	1308	N	LEU	405	11.320	1.188	-1.750	1.00	0.27
ATOM	1309	HN	LEU	405	11.437	0.847	-2.661	1.00	0.29

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ATOM	1310	CA	LEU	405	11.425	0.269	-0.586	1.00	0.25
ATOM	1311	HA	LEU	405	10.552	0.380	0.038	1.00	0.25
ATOM	1312	CB	LEU	405	11.533	-1.180	-1.067	1.00	0.28
ATOM	1313	HB1	LEU	405	12.569	-1.425	-1.241	1.00	0.32
ATOM	1314	HB2	LEU	405	10.975	-1.297	-1.985	1.00	0.28
ATOM	1315	CG	LEU	405	10.961	-2.118	0.001	1.00	0.33
ATOM	1316	HG	LEU	405	11.078	-3.143	-0.321	1.00	0.97
ATOM	1317	CD1	LEU	405	11.708	-1.912	1.321	1.00	1.12
ATOM	1318	HD11	LEU	405	12.739	-1.664	1.117	1.00	1.80
ATOM	1319	HD12	LEU	405	11.663	-2.818	1.906	1.00	1.60
ATOM	1320	HD13	LEU	405	11.247	-1.105	1.873	1.00	1.61
ATOM	1321	CD2	LEU	405	9.475	-1.813	0.208	1.00	1.02
ATOM	1322	HD21	LEU	405	8.884	-2.645	-0.144	1.00	1.72
ATOM	1323	HD22	LEU	405	9.209	-0.925	-0.343	1.00	1.62
ATOM	1324	HD23	LEU	405	9.283	-1.655	1.259	1.00	1.44
ATOM	1325	C	LEU	405	12.668	0.638	0.218	1.00	0.27
ATOM	1326	O	LEU	405	12.673	0.578	1.429	1.00	0.27
ATOM	1327	N	GLU	406	13.719	1.037	-0.442	1.00	0.32
ATOM	1328	HN	GLU	406	13.695	1.093	-1.421	1.00	0.33
ATOM	1329	CA	GLU	406	14.946	1.430	0.299	1.00	0.35
ATOM	1330	HA	GLU	406	15.267	0.615	0.933	1.00	0.36
ATOM	1331	CB	GLU	406	16.055	1.785	-0.694	1.00	0.42
ATOM	1332	HB1	GLU	406	16.546	2.692	-0.376	1.00	1.01
ATOM	1333	HB2	GLU	406	15.625	1.933	-1.675	1.00	0.87
ATOM	1334	CG	GLU	406	17.076	0.647	-0.751	1.00	1.18
ATOM	1335	HG1	GLU	406	16.571	-0.277	-0.988	1.00	1.67
ATOM	1336	HG2	GLU	406	17.565	0.556	0.208	1.00	1.75
ATOM	1337	CD	GLU	406	18.117	0.949	-1.830	1.00	1.21
ATOM	1338	OE1	GLU	406	18.351	2.117	-2.089	1.00	1.59
ATOM	1339	OE2	GLU	406	18.662	0.005	-2.379	1.00	1.61
ATOM	1340	C	GLU	406	14.613	2.647	1.158	1.00	0.34
ATOM	1341	O	GLU	406	14.937	2.705	2.328	1.00	0.35
ATOM	1342	N	ASP	407	13.945	3.613	0.588	1.00	0.33
ATOM	1343	HN	ASP	407	13.680	3.537	-0.353	1.00	0.34
ATOM	1344	CA	ASP	407	13.565	4.817	1.373	1.00	0.34
ATOM	1345	HA	ASP	407	14.448	5.256	1.815	1.00	0.37
ATOM	1346	CB	ASP	407	12.888	5.833	0.447	1.00	0.36
ATOM	1347	HB1	ASP	407	12.063	5.360	-0.066	1.00	0.34
ATOM	1348	HB2	ASP	407	13.606	6.188	-0.279	1.00	0.40
ATOM	1349	CG	ASP	407	12.367	7.016	1.267	1.00	0.40
ATOM	1350	OD1	ASP	407	11.348	6.856	1.919	1.00	1.23
ATOM	1351	OD2	ASP	407	12.997	8.060	1.230	1.00	1.07
ATOM	1352	C	ASP	407	12.598	4.385	2.477	1.00	0.30
ATOM	1353	O	ASP	407	12.734	4.764	3.623	1.00	0.31
ATOM	1354	N	ILE	408	11.632	3.574	2.138	1.00	0.29
ATOM	1355	HN	ILE	408	11.551	3.270	1.211	1.00	0.30
ATOM	1356	CA	ILE	408	10.665	3.093	3.164	1.00	0.28
ATOM	1357	HA	ILE	408	10.191	3.935	3.644	1.00	0.30
ATOM	1358	CB	ILE	408	9.609	2.213	2.491	1.00	0.29
ATOM	1359	HB	ILE	408	10.093	1.374	2.013	1.00	0.30
ATOM	1360	CG1	ILE	408	8.855	3.034	1.442	1.00	0.27
ATOM	1361	HG11	ILE	408	9.502	3.807	1.057	1.00	0.29
ATOM	1362	HG12	ILE	408	7.983	3.484	1.894	1.00	0.30
ATOM	1363	CG2	ILE	408	8.623	1.698	3.541	1.00	0.35
ATOM	1364	HG21	ILE	408	8.873	2.116	4.505	1.00	1.07
ATOM	1365	HG22	ILE	408	8.680	0.621	3.590	1.00	1.11
ATOM	1366	HG23	ILE	408	7.621	1.994	3.269	1.00	1.05
ATOM	1367	CD1	ILE	408	8.420	2.121	0.295	1.00	0.25
ATOM	1368	HD11	ILE	408	7.341	2.079	0.257	1.00	0.98
ATOM	1369	HD12	ILE	408	8.813	1.128	0.457	1.00	1.11
ATOM	1370	HD13	ILE	408	8.798	2.510	-0.639	1.00	0.97
ATOM	1371	C	ILE	408	11.428	2.269	4.199	1.00	0.30
ATOM	1372	O	ILE	408	11.196	2.365	5.390	1.00	0.33
ATOM	1373	N	GLU	409	12.352	1.467	3.745	1.00	0.30
ATOM	1374	HN	GLU	409	12.522	1.420	2.781	1.00	0.29
ATOM	1375	CA	GLU	409	13.158	0.635	4.679	1.00	0.34
ATOM	1376	HA	GLU	409	12.522	-0.098	5.154	1.00	0.35
ATOM	1377	CB	GLU	409	14.265	-0.075	3.895	1.00	0.37
ATOM	1378	HB1	GLU	409	15.045	0.631	3.653	1.00	0.37
ATOM	1379	HB2	GLU	409	13.854	-0.482	2.982	1.00	0.36
ATOM	1380	CG	GLU	409	14.848	-1.205	4.742	1.00	0.44
ATOM	1381	HG1	GLU	409	14.100	-1.970	4.886	1.00	0.82
ATOM	1382	HG2	GLU	409	15.154	-0.814	5.702	1.00	0.75
ATOM	1383	CD	GLU	409	16.058	-1.807	4.026	1.00	1.01
ATOM	1384	OE1	GLU	409	15.856	-2.489	3.034	1.00	1.63
ATOM	1385	OE2	GLU	409	17.167	-1.575	4.480	1.00	1.75
ATOM	1386	C	GLU	409	13.778	1.543	5.740	1.00	0.36

Figure 8 (19 of 19)

ATOM	1387	O	GLU	409	13.902	1.179	6.892	1.00	0.39
ATOM	1388	N	GLU	410	14.151	2.733	5.357	1.00	0.35
ATOM	1389	HN	GLU	410	14.027	3.008	4.423	1.00	0.34
ATOM	1390	CA	GLU	410	14.744	3.678	6.341	1.00	0.38
ATOM	1391	HA	GLU	410	15.501	3.169	6.921	1.00	0.43
ATOM	1392	CB	GLU	410	15.369	4.865	5.605	1.00	0.43
ATOM	1393	HB1	GLU	410	14.846	5.771	5.873	1.00	1.11
ATOM	1394	HB2	GLU	410	15.294	4.707	4.539	1.00	0.91
ATOM	1395	CG	GLU	410	16.841	4.992	6.001	1.00	1.23
ATOM	1396	HG1	GLU	410	17.332	4.040	5.871	1.00	1.87
ATOM	1397	HG2	GLU	410	16.910	5.295	7.036	1.00	1.90
ATOM	1398	CD	GLU	410	17.520	6.039	5.116	1.00	1.74
ATOM	1399	OE1	GLU	410	18.332	6.788	5.635	1.00	2.28
ATOM	1400	OE2	GLU	410	17.218	6.073	3.934	1.00	2.35
ATOM	1401	C	GLU	410	13.635	4.174	7.268	1.00	0.35
ATOM	1402	O	GLU	410	13.846	4.401	8.443	1.00	0.38
ATOM	1403	N	ALA	411	12.447	4.331	6.747	1.00	0.32
ATOM	1404	HN	ALA	411	12.300	4.132	5.798	1.00	0.32
ATOM	1405	CA	ALA	411	11.315	4.797	7.594	1.00	0.33
ATOM	1406	HA	ALA	411	11.526	5.787	7.972	1.00	0.35
ATOM	1407	CB	ALA	411	10.032	4.825	6.761	1.00	0.32
ATOM	1408	HB1	ALA	411	10.193	4.295	5.833	1.00	1.08
ATOM	1409	HB2	ALA	411	9.761	5.848	6.549	1.00	1.12
ATOM	1410	HB3	ALA	411	9.235	4.348	7.313	1.00	0.93
ATOM	1411	C	ALA	411	11.137	3.827	8.760	1.00	0.35
ATOM	1412	O	ALA	411	10.725	4.202	9.839	1.00	0.41
ATOM	1413	N	LEU	412	11.444	2.578	8.545	1.00	0.35
ATOM	1414	HN	LEU	412	11.773	2.300	7.663	1.00	0.33
ATOM	1415	CA	LEU	412	11.293	1.574	9.636	1.00	0.40
ATOM	1416	HA	LEU	412	10.362	1.748	10.156	1.00	0.43
ATOM	1417	CB	LEU	412	11.291	0.153	9.049	1.00	0.42
ATOM	1418	HB1	LEU	412	10.803	-0.517	9.740	1.00	0.55
ATOM	1419	HB2	LEU	412	12.311	-0.170	8.899	1.00	0.42
ATOM	1420	CG	LEU	412	10.548	0.122	7.703	1.00	0.49
ATOM	1421	HG	LEU	412	11.140	0.627	6.954	1.00	1.00
ATOM	1422	CD1	LEU	412	10.332	-1.332	7.277	1.00	0.79
ATOM	1423	HD11	LEU	412	10.766	-1.489	6.301	1.00	1.34
ATOM	1424	HD12	LEU	412	9.274	-1.543	7.238	1.00	1.35
ATOM	1425	HD13	LEU	412	10.805	-1.990	7.991	1.00	1.42
ATOM	1426	CD2	LEU	412	9.186	0.814	7.836	1.00	0.82
ATOM	1427	HD21	LEU	412	8.762	0.590	8.804	1.00	1.47
ATOM	1428	HD22	LEU	412	8.524	0.457	7.061	1.00	1.27
ATOM	1429	HD23	LEU	412	9.314	1.882	7.736	1.00	1.40
ATOM	1430	C	LEU	412	12.456	1.718	10.620	1.00	0.44
ATOM	1431	O	LEU	412	12.340	1.393	11.785	1.00	0.50
ATOM	1432	N	CYS	413	13.577	2.203	10.160	1.00	0.44
ATOM	1433	HN	CYS	413	13.650	2.461	9.217	1.00	0.41
ATOM	1434	CA	CYS	413	14.746	2.369	11.070	1.00	0.51
ATOM	1435	HA	CYS	413	14.701	1.626	11.852	1.00	0.89
ATOM	1436	CB	CYS	413	16.041	2.196	10.274	1.00	1.35
ATOM	1437	HB1	CYS	413	16.798	2.856	10.671	1.00	1.97
ATOM	1438	HB2	CYS	413	15.862	2.436	9.237	1.00	1.82
ATOM	1439	SG	CYS	413	16.606	0.481	10.406	1.00	2.31
ATOM	1440	HG	CYS	413	16.332	0.143	11.261	1.00	2.68
ATOM	1441	C	CYS	413	14.713	3.767	11.691	1.00	1.45
ATOM	1442	O	CYS	413	15.731	4.411	11.846	1.00	2.03
END									